



Sri Lanka Institute of Information Technology

Tourism Management System

Project Report

Information Technology Project 2021

Project ID: ITP21_S2_MT_07

Submitted by:

- 01. IT20113254 – Imeshika T H**
- 02. IT20089436 – Senarathne S M A D**
- 03. IT19192024 – Jayawardhana E.H.K**
- 04. IT20032692 – Kumarasinghe C A W**
- 05. IT20037192 – De Silva K G S**
- 06. IT20049140 – Fernando P T N**
- 07. IT20084318 – Gunasinghe U J H**
- 08. IT20236328 – Peiris H R D R**

Submitted to:

.....

10.13.2021

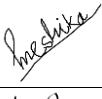
DECLARATION

We declare that this project report or part of it was not a copy of a document done by any organization, university any other institute or a previous student project group at SLIIT and was not copied from the Internet or other sources.

Project Details

Project Title	Tourism Management System
Project ID	ITP21_S2_MT_07

Group Members

Reg. No	Name	Signature
IT20113254	Imeshika T H	
IT20089436	Senarathne S M A D	
IT19192024	Jayawardhana E.H.K	
IT20032692	Kumarasinghe C A W	
IT20037192	De Silva K G S	
IT20049140	Gunasinghe U J H	
IT20236328	Peiris H R D R	
IT20049140	Fernando P T N	

Git Hub : <https://github.com/amilia1998/Open-World-MERN-Stack>

ABSTRACT

This project is a web application for Tourism management system. Earlier the system was followed by a manual processing system using paperwork and it was a separate process. Through the developed computerized Tourism Management System, users can be eased to manage and run all the operations. In order to make the system more productive, the system has been divided into 8 main functions to implement a complete system. Guide Management, Hotel Management, Payment Management , Tourism destination Management , Ayurvedic treatment Management , Advertising Management , Outdoor & Adventure Experiences Management ,Transport Management , User Management and generating relevant reports are done with the help of the developed system. All the database records are maintained in a very secure way. Human errors can be avoided by using developed system in many different ways such as calculation and other sensitive details. As this system is a web-based application the users can be able to access the system anywhere at any time through the internet. The system was developed using React Js, Node js, Mongo Database, in order to provide an efficient product.

ACKNOWLEDGEMENT

The work described in this document was done as our second-year second semester project for the subject Information Technology Project. As the ITP21_S2_MT_07 group members we hereby express our heartiest gratitude to all who provided a good guidance and necessary support to complete our project task successfully. Special thanks go to all the lecturers and instructors attached to Information Technology Project (ITP) module, specially Ms Geethanjali Wimalaratne and MR Harshanath S.M.B. Their advices and encouragement gave us strength from the beginning to do this project successfully. Their huge support helped us to fulfil their requirements successfully. Finally, to all the group members who gave their maximum effort and commitment to complete the project successfully. This website was the final outcome of their hard work throughout this semester.

Table of Contents

DECLARATION.....	2
ABSTRACT.....	3
ACKNOWLEDGEMENT	4
LIST OF FIGURES	7
LIST OF TABLES	10
LIST OF ACRONYMS AND ABBREVIATIONS	11
1. Introduction.....	12
1.1 Problem Statement	12
1.1.1 Problem and difficulties they faced	12
1.1.2 Solution.....	13
1.1.3 Benefits.....	13
1.2 Product Scope.....	14
1.2.1 User Management	14
1.2.2 Tour Guide Management.....	14
1.2.3 Hotel Management.....	16
1.2.4 Vehicle renting Management	16
1.2.4 Payment Management	17
1.2.6 Tourism destination Management	17
1.2.7 Ayurvedic treatment Management	18
1.2.8 Advertising Management	18
1.2.9 Outdoor & Adventure Experiences Management	19
1.3 Project Report Structure.....	20
2. Methodology.....	21
2.1 Requirements and Analysis	21
2.1.1 Use Case Diagrams	21
2.1.2 Activity Diagrams.....	29
2.2 Design.....	41
2.2.1 Class Diagram	41
2.2.2 Entity Relationship Diagram	42
2.2.3 User Interfaces	43
2.3 Implementation.....	88
2.3.1 Tools used for the Development	88
Software	88

Usage.....	88
Visual Studio Code.....	88
For coding environment	88
MongoDB	88
For database management.....	88
Google chrome	88
For the display web page.....	88
Adobe Photoshop CC/ Adobe Illustrator	88
For the image and logo creation.....	88
React (JavaScript library)	88
For Develop the Frontend	88
Node.js Platform.....	88
For Develop the Backend (server environment).....	88
The system has developed as MERN Stack Architecture following are the screenshots of the related coding.	88
2.4. Testing	94
Testing Function:	105
Add Tour Guide	105
3. Conclusion	122
3.1 Objectives.....	122
3.2 Goals.....	122
3.3 Benefits of the system	122
4. References.....	123

LIST OF FIGURES

Figure 1 HOTEL MANAGEMENT USE CASE DIAGRAM.....	21
Figure 2 Guide Management Use Case Diagram	22
Figure 3 Vehicle management Use Case.....	23
Figure 4 Payment Management Use Case	24
Figure 5 Tourism Destination Management Use Case.....	25
Figure 6 Ayurvedic treatment management Use Case Diagram	26
Figure 7 Advertising Management Use Case Diagrams	27
Figure 8 Outdoor & Adventure Experiences Management Use Case Diagrams	28
Figure 9 Hotel Management Activity Diagrams	29
Figure 10 Tour Guide Management Activity Diagrams	31
Figure 11 Vehicle renting Management Activity Diagrams.....	32
Figure 12 Payment Management Activity Diagrams	33
Figure 13 Tourism destination Management Activity Diagrams.....	34
Figure 14 Ayurvedic treatment management Activity Diagrams	35
Figure 15 AYURVEDIC TREATMENT MANAGEMENT ACTIVITY DIAGRAMS 2	36
Figure 16 Advertising Management Activity Diagrams.....	39
Figure 17 Outdoor & Adventure Experiences Management Activity Diagrams.....	40
Figure 18 Class Diagram	41
Figure 19 Entity Relationship Diagram	42
Figure 20 User SignIn Page	43
Figure 21 User Registration Page	43
Figure 22 Delete Account My Payments and Delete Account Pages Navigation Page	43
Figure 23 Hotel Service Provider- Hotel List Page (Same as Admin Hotel List UI).....	44
Figure 24 Edite a Hotel page	44
Figure 25 Edet Hotel 2	44
Figure 26 Room List page (Same to Admin and Hotel Service Provider)	45
Figure 27 Add A Room page	45
Figure 28 Admin View of Hotel List page.....	45
Figure 29 Hotel Details Page.....	46
Figure 30 Hotels Page + Search options	46
Figure 31 Room Details Page	47
Figure 32 Admin Generated Hotel Room Booking Report.....	47
Figure 33 Tourist My Hotel Room Booking Page	48
Figure 34 Hotel Service Provider Hotel Booking List.....	48
Figure 35 Hotel Service Provider's Booking Approval Page	48
Figure 36 Guide List Page (Tourist View)	49
Figure 37 Book an Appointment a Guide	50
Figure 38 Guide Profile (Tourist View).....	50
Figure 39 Edit Guide Profile Page	51
Figure 40 Register Guide page.....	51
Figure 41 Admin Guide List Report Generator	52
Figure 42 Guide List Report	52
Figure 43 Guide Report PDF	53
Figure 44 Gude Profile.....	54

Figure 45 Rent vehicles main page	55
Figure 46 Selected vehicle page	55
Figure 47 Admin side bar.....	56
Figure 48 Admin vehicles list page	57
Figure 49 Admin vehicle booking list page	58
Figure 50 Admin Vehicle Booking List Page	58
Figure 51 Payment Card Form Page	59
Figure 52 Payment Card List Admin view	59
Figure 53 Card Payment Validations.....	60
Figure 54 Payment Successful Massage	62
Figure 55 Destination home page	63
Figure 56 Destination details page	64
Figure 57 Destination list, destination map Navigation Bar	65
Figure 58 Destination list edit/delete (Admin)	66
Figure 59 Create destination	67
Figure 60 Edit destination	68
Figure 61 Insert location map (Admin)	69
Figure 62 View location (Admin)	70
Figure 63 Search destination (User)	71
Figure 64 Search destination (Admin)	72
Figure 65 Ayurveda Treatment Store	73
Figure 66 Treatment Details Page	74
Figure 67 Ayurvedic Treatment Appointment	75
Figure 69 AYURVEDIC TREATMENT APPOINTMENT List	76
Figure 68 Treatments Page.....	76
Figure 70 Treatment page 2	77
Figure 71 Advertiser Registration form	78
Figure 72 Advertiser Loging Form.....	78
Figure 73 Input Ads	79
Figure 74 Input ads 2	79
Figure 75 Advertisement Payment Page	80
Figure 76 All Advertisement Page	80
Figure 77 All Users Page	81
Figure 78 Advertisement Update page	81
Figure 79 User Details Update page	82
Figure 80 Adventure Activities List Page	83
Figure 81 Adventure Activities Details Page	83
Figure 82 Adventure Activities Booking page	84
Figure 83 Successful message in Adventure Activities	84
Figure 84 Adventure Activities Admin View	85
Figure 85 ADVENTURE ACTIVITIES Booking ADMIN	85
Figure 86 Adventure Activities Delete Message	86
Figure 87 Adventure Activities delete Successful message.....	86
Figure 88 ADVENTURE ACTIVITIES Searching.....	87
Figure 89 Vs Code Folder Structure	88

Figure 90 CODE OF SERVER SIDE VALIDATION OF AUTHORIZATIONS 2	89
Figure 91 code of server side Validation of Authorizations 1	89
Figure 92 Booking Guide	90
Figure 93 Edit Guide	90
Figure 94 Report Guide	91
Figure 95 Rating Guide	91
Figure 96 Request Guide	92
Figure 97 Request send and cancel Guide	92
Figure 98 Search Guide.....	93
Figure 99 Update Delete Guide	93

LIST OF TABLES

Table 1 Add Destination Test Case	94
Table 2 Delete Destination Test Case	95
Table 3 Update Destination Test Case.....	96
Table 4 Search Destination test case.....	97
Table 5 Add Vehicle Test case	98
Table 6 update Vehicle Test case	99
Table 7 delete Vehicle Test case.....	100
Table 8 Add Adventure activity Test Case	101
Table 9 Update Adventure activity Test case	102
Table 10 Delete Adventure activity test case	103
Table 11 Search Adventure activity test case	104
Table 12 Add Tour Guide test case.....	105
Table 13 Add hotel test case	106
Table 14 Delete guide test case.....	107
Table 15 Delete hotel test case	108
Table 16 Update guide test case	109
Table 17 Update hotel test case	110
Table 18 Add Advertisement test case	111
Table 19 Update Advertisement test case.....	112
Table 20 : Delete Advertisement test case	113
Table 21 Add Card details test case.....	114
Table 22 : Update Card details test case	115
Table 23 Delete card details test case	116
Table 24 Search card details test case	117
Table 26 Make an appointment test case	118
Table 27 Testing admin search request.....	120

LIST OF ACRONYMS AND ABBREVIATIONS

DB - Data Base

UI - User Interface

1. Introduction

Open World is a web application that travellers and service providers can use to cover all aspects of the tourism industry. This will give tourists the best experience and value for their travels. Therefore, the Open World provides a superior service to facilitate travellers' travel needs and instantly share the best experience. Instead, this system offers value and trusted offers to customers who connect through this system at the best prices.

Travelers can visit to our site and search hotels, vehicles, and leisure activities and such a things and book them earlier or during the trip to success their journey in proper way and same as traveller can see the locate places form map.

Service providers can add their services and such a thing through our site. And advertiser can publish their any kind of tourism related advertisements through our site by paying relevant payment to our site.

1.1 Problem Statement

1.1.1 Problem and difficulties they faced

Currently clients use different web base systems for plan their journey. Due to the many needs for a journey, if the clients can get details and book them form a one place that is a best benefit. tourists and workplaces also face a lot of problems as there is no source to get every service.

As a tourist,

- Clients will face difficulties when search places in same root when they go for a destination.
- The possibility of getting lost in new names for the area you are visiting.
- Transaction details are manually so when calculating expenses, there is a high possibility that the calculation might be wrong.
- Clients will face difficulties when he wants to organize journey and wants to reserve them with different systems.

As a service provider,

- They fail to identify a competitive market because some service providers do not share their experience and other details manually.
- Also, before making a transaction, problems sometimes arise due to not being able to know the customer's details.

1.1.2 Solution

- Every Tourist can plan their trip before fly to destination or once viewing the map can view all places where locate in the same root.
- They can calculate their budget and calculate time.
- The Traveller can choose a service provider (guide, vehicle services) based on feedback.
- They can search about hidden places along the way and possible activities.
- It has the potential to generate revenue by providing an opportunity to provide services in the tourism sector.

1.1.3 Benefits

“Open World” Web application is a huge platform for the marketing of the product other than the manual system. Company must work together with so many customers. This web application helps to keep in touch with other parties and increase the effectiveness of sharing information. The solutions that we mention above, contribute a lot to the success of the company. Through this we can enhancing the market by attracting lot of customers. And it can reduce both time and cost by reducing required manpower. So, some of the benefits of the web application which has purpose as the solution for the problems, has mention below.

- Improves customer service
- Can Attract customers and provide more services
- Increase visibility and revenue
- Automate business process
- Easy editing and reporting
- Cost saving
- Less paper wastes
- job opportunities

1.2 Product Scope

1.2.1 User Management

This function covers the details about the registration of users which can be registered by itself by adding data like name, password, email id, and further details. After registration, they can sign in by their username and password.

1. New users can register to the system.
2. Registered users can log in to the system, read profile data & edit profile data.
3. Users can reset passwords via email.
4. Admin can view all registered user's data & suspend users

1.2.2 Tour Guide Management

A guide is a service provider who is the help for tourists. In that case, a guide can register as a tour guide through the system. After the Logging, they can be able to provide his details and make packages to tourists. In our system, tourists can search for a tour guide according to their needs. After the select a tour guide, tourists send a booking reservation.

Then system through the payment process from the payment management function and notify the tour guide of relevant details. After the tour guide conforms to the request, the system adds to the tour guide schedule and sends a notification with the relevant details.

The tour guide can show his validation license documents after the system administrator conforms to that. In that case, the tour guide must send license documents to the system admin through the system then the system admin can give a verification status.

Once a foreigner can choose a guide, the Foreigner can send a booking reservation, including the number of days. The guide's profile also shows his availability, and after the send, a booking reservation temperately disables the availability. Then tour guide must confirm or decline the request opinion. When the tour guide approves the request, the tour guide's availability is permanently disabled for the booking period. On a waiting list,

A foreigner can cancel their booking request.

Further, Tourists can give a rating and feedback to the tour guide, and that rating is using to display the tour guide list in the web application under the tour guide section

As a Foreigner

In this project, my part is to implement a guide management function.

In this function, if there is anyone who is interested to join with the company as a Foreigner.

They can click on the guide category, and they will see A list of all the guides on the site.

But they can't view guides details without login of this system.

Firstly, foreigners must create accounts as new customers.

Then he or she completely fills this form, and they can create his or her account register successfully.

If they already have account eligibility they can connect directly to this system.

Then foreigners can view display and review pages and display all the profiles and profile details, including qualification and availability

As well a foreigner can give a rate and give a comment after on his services for each guide.

Then now he or she wants to tour with him they can request for him. The foreigner can click the request button and then send him or her a reservation appointment message to the guide.

Then he or she can log out of the system.

As a Guide

In this function, if there is anyone who is interested to join with the company as a guide.

If they already have account eligibility, he or she can connect directly to this system as a guide.

But if they do have no account, they must create an account. And then they can log in to the system with add account log introductions. (These are the validations of my Guide Registration form)

After accessing the guide, you can see all the email requests sent by foreigners about upcoming feeds.

At the same time guide can accept or reject the request according to their schedule then the guide is accepting or rejecting the request Travellers will be informed.

If he or she wants to edit guide details, they can edit guide details.

As well as he or she wants to delete profiles they can delete profiles.

Then now he or she can log out of this site as if they want.

As an admin

as well as related to this function admin can login to the system through the admin and afterward refer the manage the guide who is registered to our system as a result of this function. We can see the all-guide list on the guide management page. finally,

we can generate a monthly request using the tricks that have been handle by the guide within the month. If we need a report, we can print it here.

1.Admin can add, edit, delete guide details & search guide information

filtered using guide name.

2. Admin can have a generated report on all the request details and their relevant guide details that coming from Travellers.

3. Guide can log in to the system & see their own request details that sent by the Travellers.

1.2.3 Hotel Management

This is a function that use to manage hotels in the system. All functionalities regarding a hotel service provider, Tourists, and the system admin are done by this Function. When a new Hotel service provider wants to join our company, we need to store Hotel, and system admin can handle details through this Function. Tourists can be able to search Hotels and send booking reservations. When a Tourist selects a Hotel In this Function shows all the available Rooms. after they send the booking reservation, notifies the hotel service provider. Then hotel owner must conform to that request and inform the Tourist about that confirmation. in that period, tourists should stay

on a waiting list. In that waiting period, the Traveller can cancel the request. After a traveller requests a room, the room is temporarily disabled the availability. It also permanently disables the room availability until the customer-booked period after conforming by the service provider. As sub-functions, Between the traveller and hotel service provider can communicate through the system. And can give feedback and rating for the hotels from travellers. That rating will be a default sorting method for showing the hotels in our system under the hotels' categories. Further, it generates reports to hotel service providers and system administrators across the system.

1.2.4 Vehicle renting Management

As a traveller they cannot own a car in every place or country they go, they always prefer other options like public transports, cabs, busses, trains, and rent cars or bikes. Getting a car on hire has become quite popular because it is considerably less expensive than owning one. With this in mind, I've settled on the operation of car rental management, in which a tourist may reserve a vehicle through an online tourism system.

Tourists may choose the car and amenities that they wish. Tourists can also select whether or not they want a driver. As the car owner, he has the ability to insert, update, and delete vehicle information. He has the authority to approve or refuse visitor bookings. Booking records and car information are available to the administrator.

After registering as a vehicle owner, they should get information on the progress of their car's verification. The driver also became a member of the system. As a result, the validated document should be sent via the system. The system administrator then assigns the verification status to passengers.

The system can communicate between the traveller and the car owner as sub-functions. Also, tourists may provide feedback and ratings for the vehicles and drivers. The default sorting technique for the presenting list of automobiles in our system under the vehicle categories will be that rating.

1.2.4 Payment Management

This Function manages travellers' booking payments, service providers charges, and advertising charges. And first, the traveller visits our site and search for what they want before or during the journey, then they can easily add or remove their needs from the cart. On the cart page, it generates a bill like a quotation with the service charges.

If they want to book any service, then they can book them by adding valid payment details and booking details. Then the booking details and payment details passed through via notification to the relevant service provider and to the traveller. After the payment process when done Tourist can view their payment reports.

As payment admin, he or she can search and update or delete all the payment details and booking details. Also, the admin can view the monthly payment report.

And charge a payment as service charges, for the advertisements which publish by Hotels, Vehicle renting, guest booking, ayurvedic treatment, and outdoor and adventure activities when the customer booking through the site and transfer the relevant payment to service providers. And according to the advertising function, the full payment collects as the service charge.

1.2.6 Tourism destination Management

This is a management function for the destination. This function is responsible for all client, traveller, and system administrator functions. The destination and the addition can be connected. The system administrator inputs and controls information about the destination and location.

When a tourist wishes to get to his destination, he uses the system to choose a package that suits his needs. When a tourist wishes to choose a place, the category, location, and similar locations are filtered and shown. He has the option of selecting one or more places that are connected to the location filtered category. The payment management procedure may then be used to make payments. A map provides the direction and position data from their location to selected destinations.

For example, if the desired location is filtered without the outdoor event category, all of the places are presented, and the Traveller may choose the one they want. The map depicts the selected sites' information and directions.

When a client wishes to add a location, the transaction is handled by the administrator. The administrator oversees insert, updating, and delete categories, locations, and data from the system.

For example, if a customer wants to add a venue and information to an outdoor event category, they should contact the administrator.

1.2.7 Ayurvedic treatment Management

In this function users should be able to view treatments with their names, price, and description, select treatment, view the details of the treatment details, open map to know the location of the treatment can get, insert, update, delete appointment details. Admin should be able to search treatments details, insert, update, and delete treatment details, and get a report of the treatment details, and add the location of the treatment

1.2.8 Advertising Management

In this Function, if a person or company wants to publish an advertisement, first he/she must register on our website. Then he can give the detail of Ad information and Ad. Ex- Think Sri Lankan airline want to publish an advertisement about their special ticket offer on our site so they can give us their Advertisement He can customize the pages he wants to post and how long this advertisement should last. He can update if he wants to change the ad and extend the time the ad should be published further. We will provide an interface and methods for this Function and Information and Advertisements are storing our Database.

Ex-Think Sri Lankan airline wants to publish their Advertisement on our main page so they can do additional payment or if they only want to publish the Ad so then Admin decided what are the pages are better to publish the Advertisement.

1.2.9 Outdoor & Adventure Experiences Management

The travellers can Get back to nature with adventure travel We've selected our favourite outdoor activities including adventure sports

They can book any kind of outdoor activities from our website and plan suitable places to do the activities within their tour. we always giving suggestions to the Tourist by considering their main tour plan.

Ex – Assume that if someone wants to do adventure activities through their tour to Galle considering that in outdoor and adventure web page, we will push activities near to the destination such as Hikkaduwa coral watching, Surfing. Travelers can book one or more activities by searching themself or given suggestion list, to

do. After getting the service customer can give feedback through the system as well. and then the admin can manage the Booking as well. If a traveller needs to cancel or update their booking it can also be done by themself Apart from, we provide some exciting food places as well such as street foods, food zones. On the admin side, we are getting activity details by providing links on the web page, in this case, if some service provider is interested to post their activity details on our web page they can go through the relevant link and post the application form which we provided to them. after submitting the Form admin is notified through the system. When payments and all clear we will send a confirmation email to the service provider and post the relevant activity details on our web page

1.3 Project Report Structure

The following part of the project report contains the Methodology, Testing, Conclusion, and References.

The Methodology contains all the information and diagrams about Requirement Analysis, Design, Implementation.

For the ease of reference, the sequence diagram section and testing section divided into subsystem vies as following. All other section continues for the whole section.

1. User Management and Hotel Management – (Senarathne S M A D – IT20089436)
2. Tour Guide Management – (Imeshika T H - 20113254)
3. Vehicle renting Management-(Kumarasinghe C A W - IT20032692)
4. Payment Management – (Fernando P T N - IT20049140)
5. Tourism destination Management– (Jayawardhana E.H.K – IT19192024)
6. Ayurvedic treatment management - (Peiris H R D R -IT20236328)
7. Advertising Management – (Gunasinghe U J H - IT20049140)
8. Outdoor & Adventure Experiences Management – (De Silva K G S - IT20037192)

2. Methodology

2.1 Requirements and Analysis

2.1.1 Use Case Diagrams

2.1.1.1 Hotel Management Use Case Diagrams

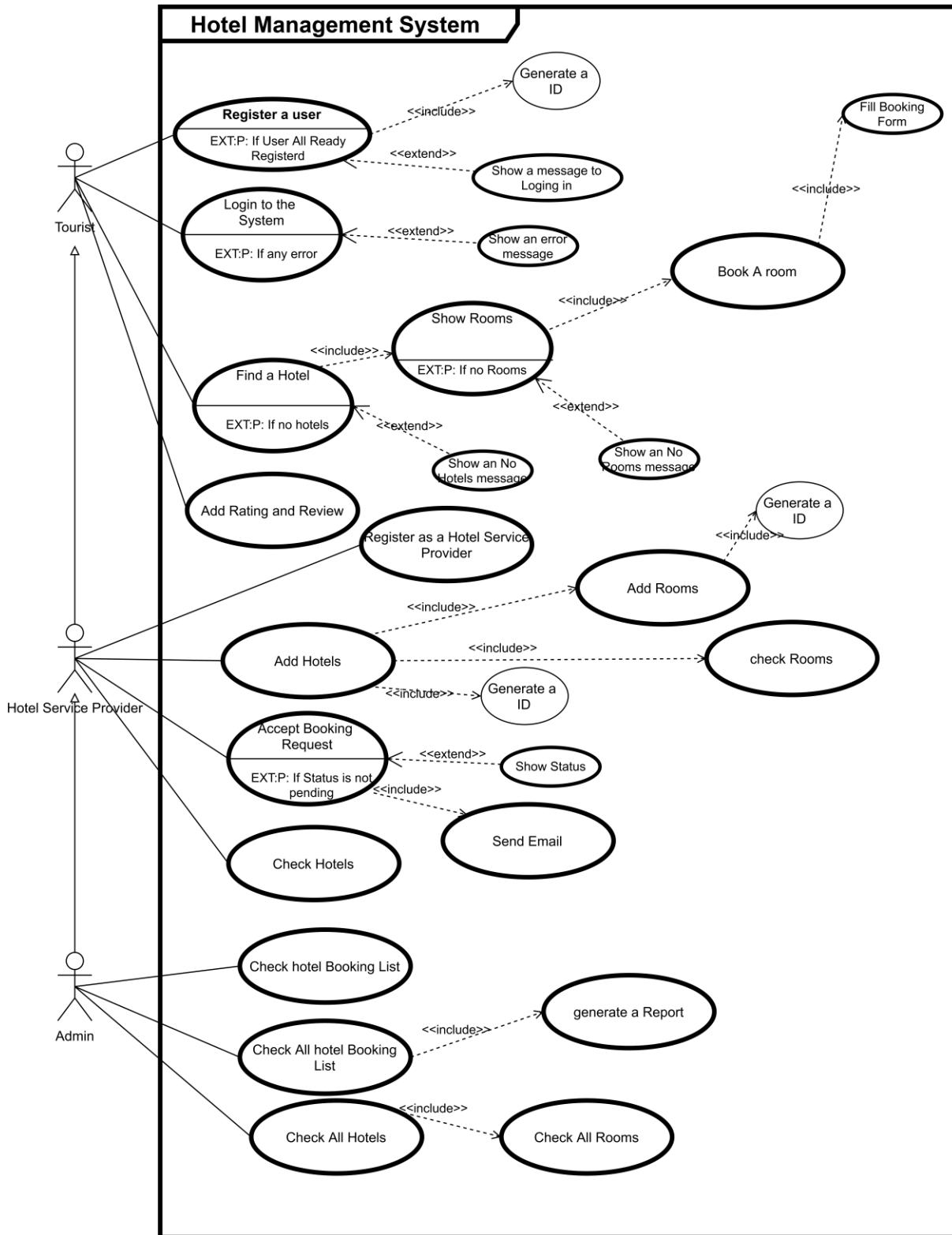


FIGURE 1 HOTEL MANAGEMENT USE CASE DIAGRAM

2.1.1.2 Tour Guide Management Use Case Diagrams

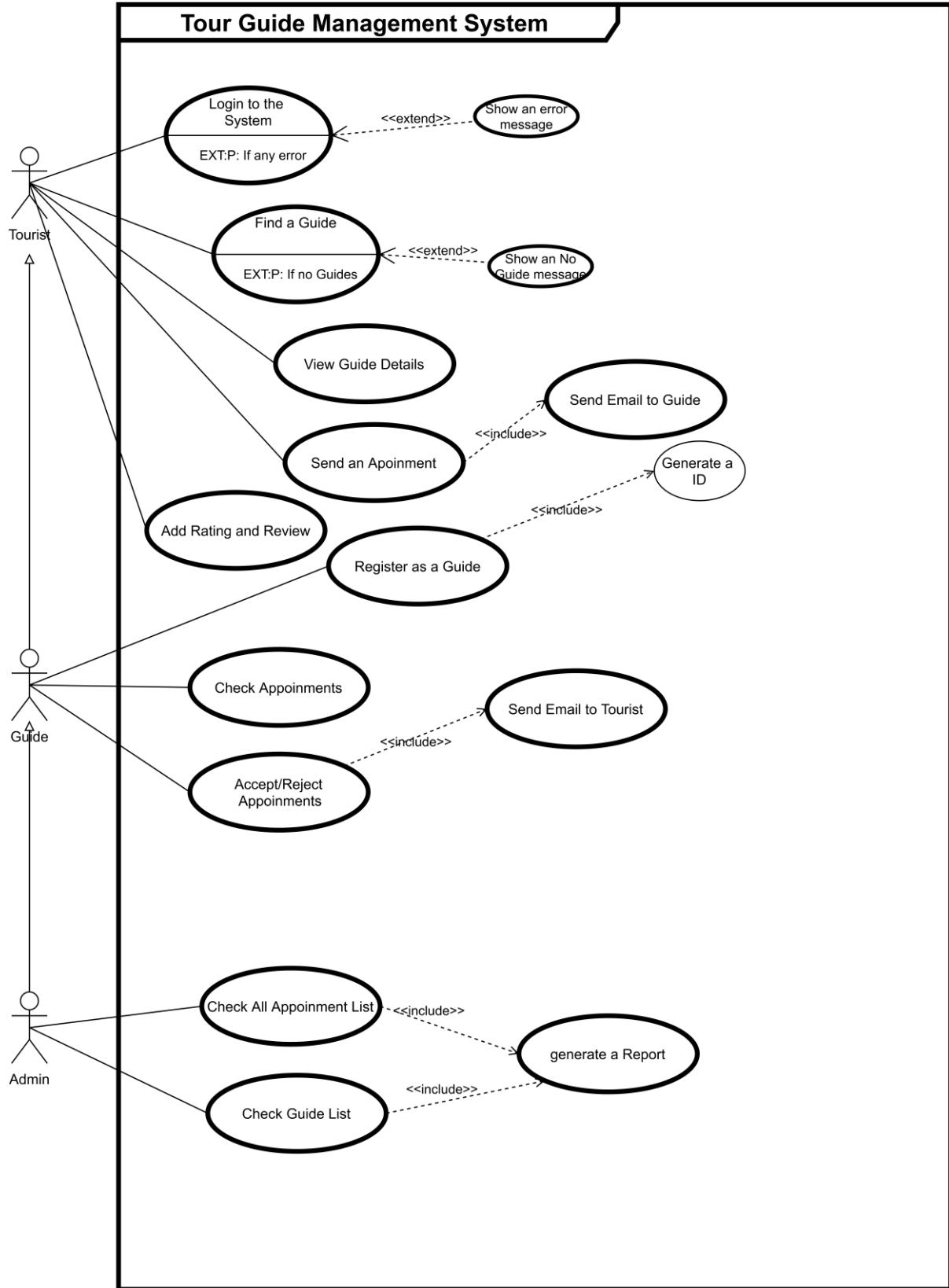


FIGURE 2 GUIDE MANAGEMENT USE CASE DIAGRAM

2.1.1.3 Vehicle renting Management Use Case Diagrams

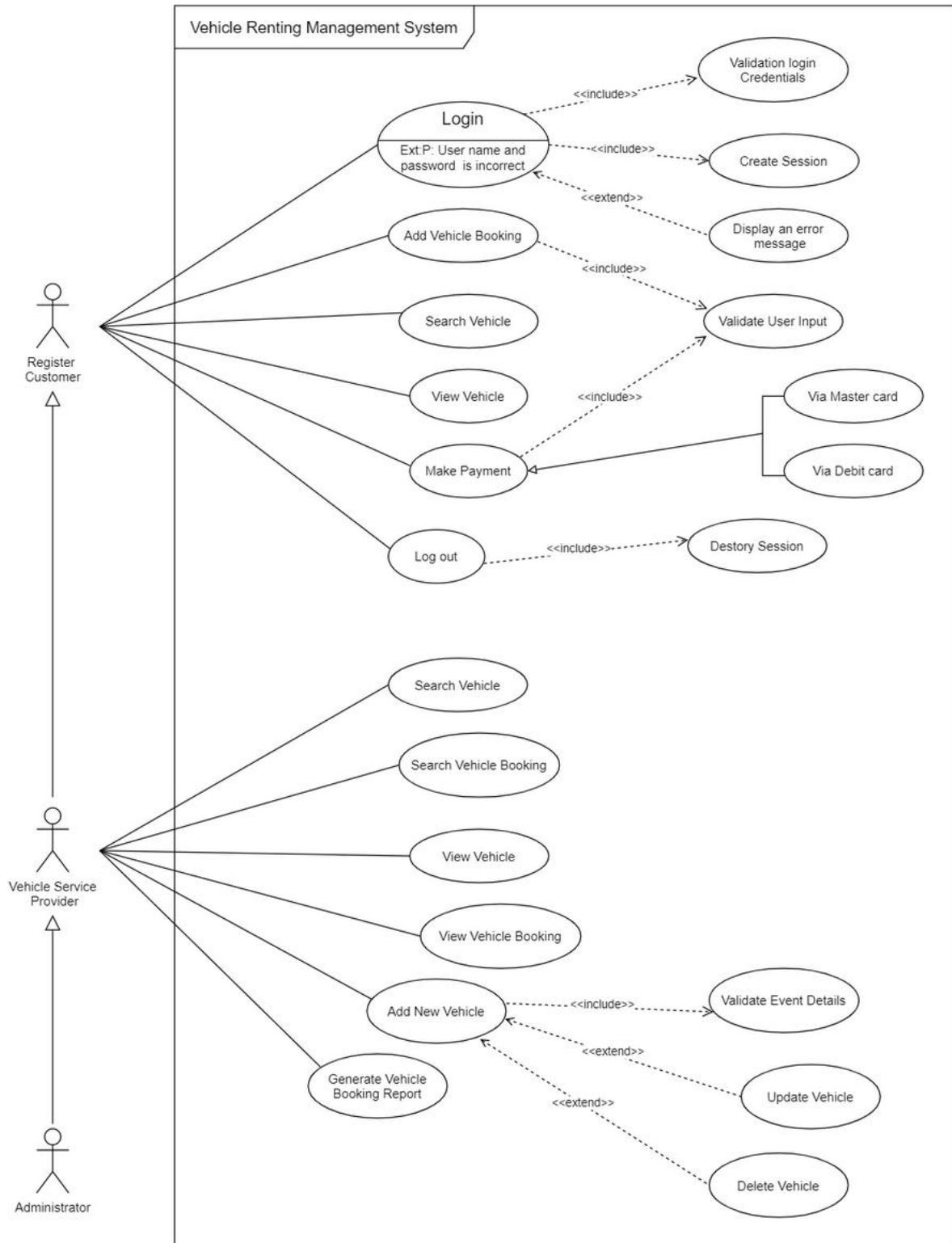


FIGURE 3 VEHICLE MANAGEMENT USE CASE

2.1.1.4 Payment Management Use Case Diagrams

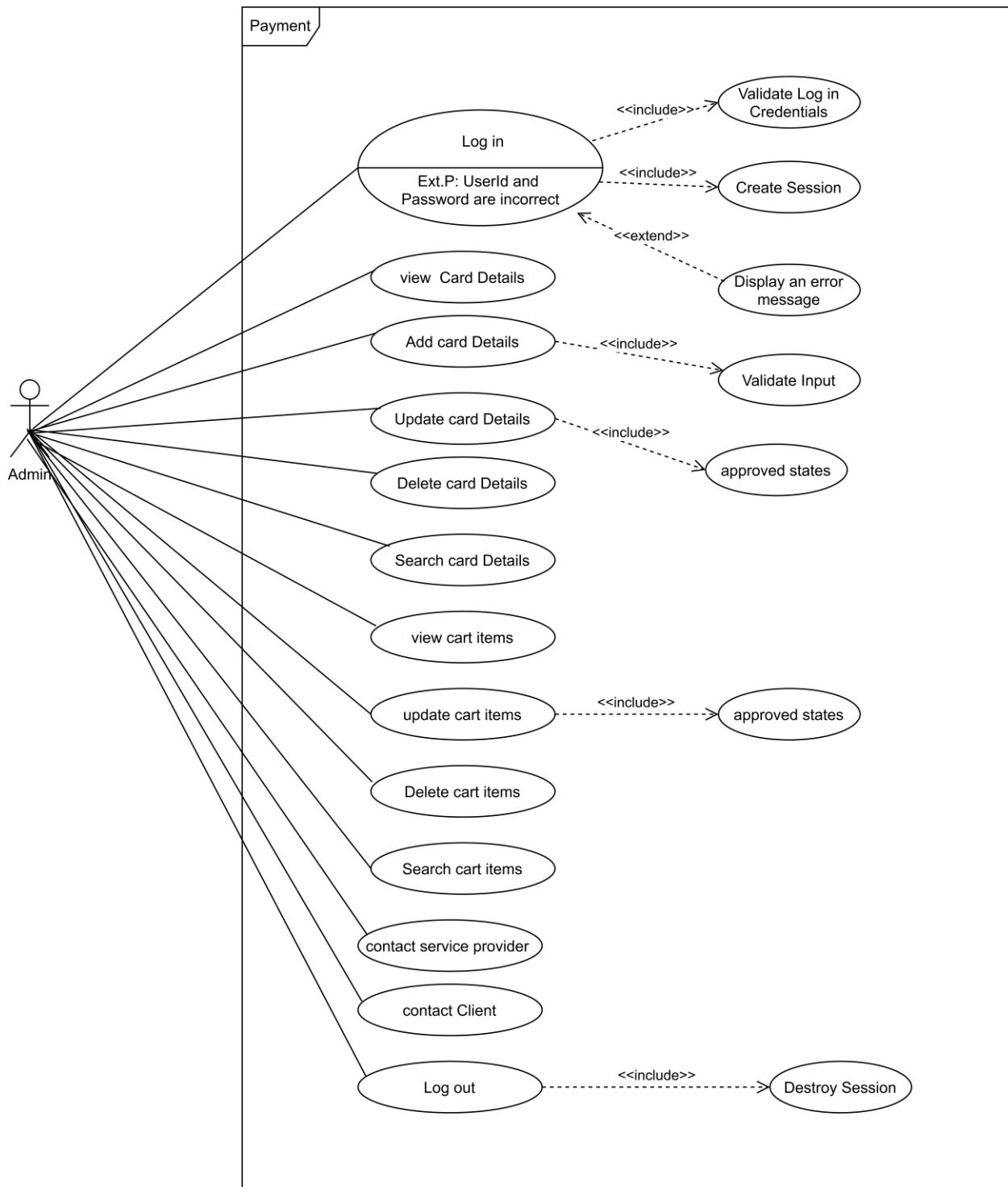


FIGURE 4 PAYMENT MANAGEMENT USE CASE

2.1.1.5 Tourism destination Management Use Case Diagrams

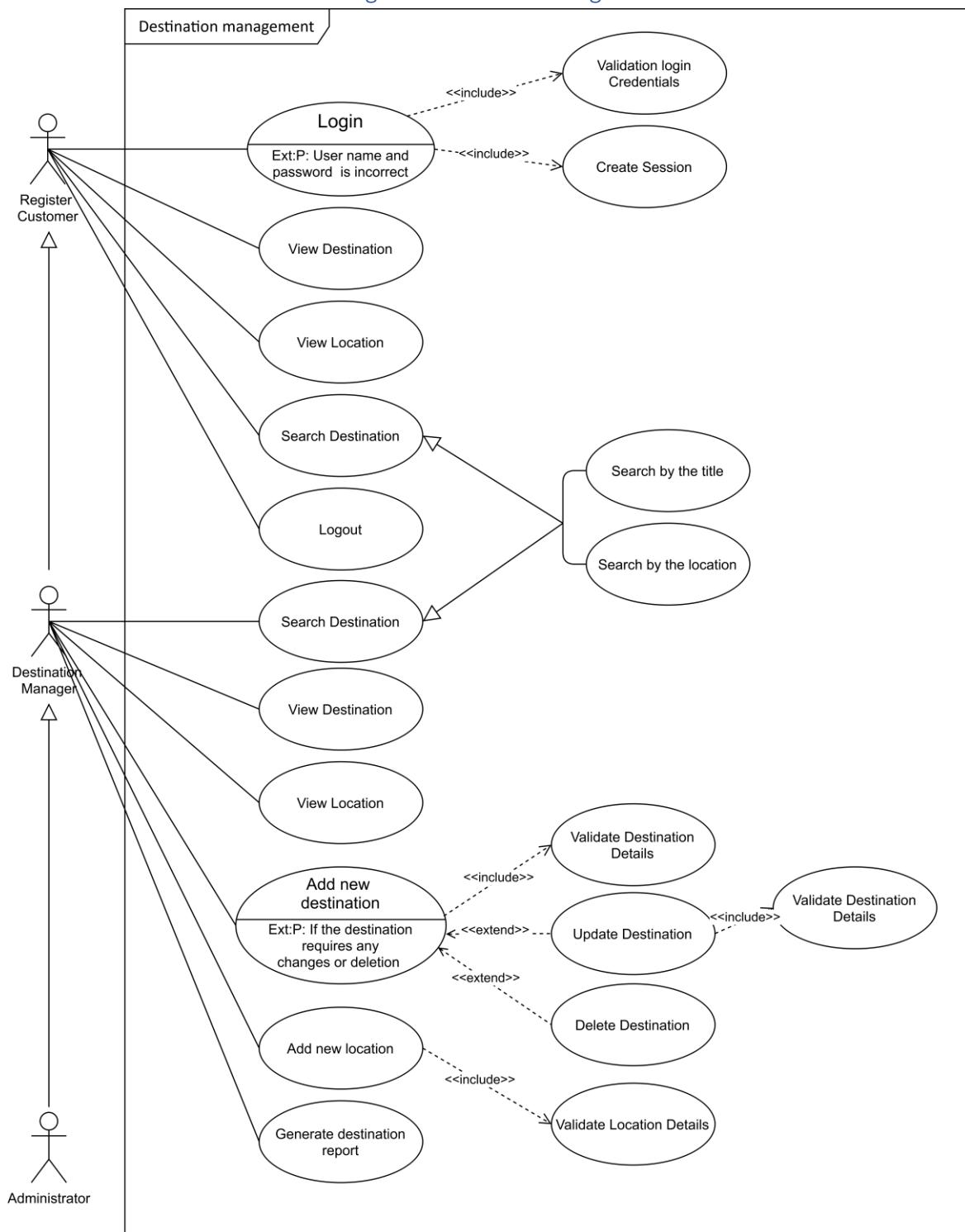


FIGURE 5 TOURISM DESTINATION MANAGEMENT USE CASE

2.1.1.6 Ayurvedic treatment management Use Case Diagrams

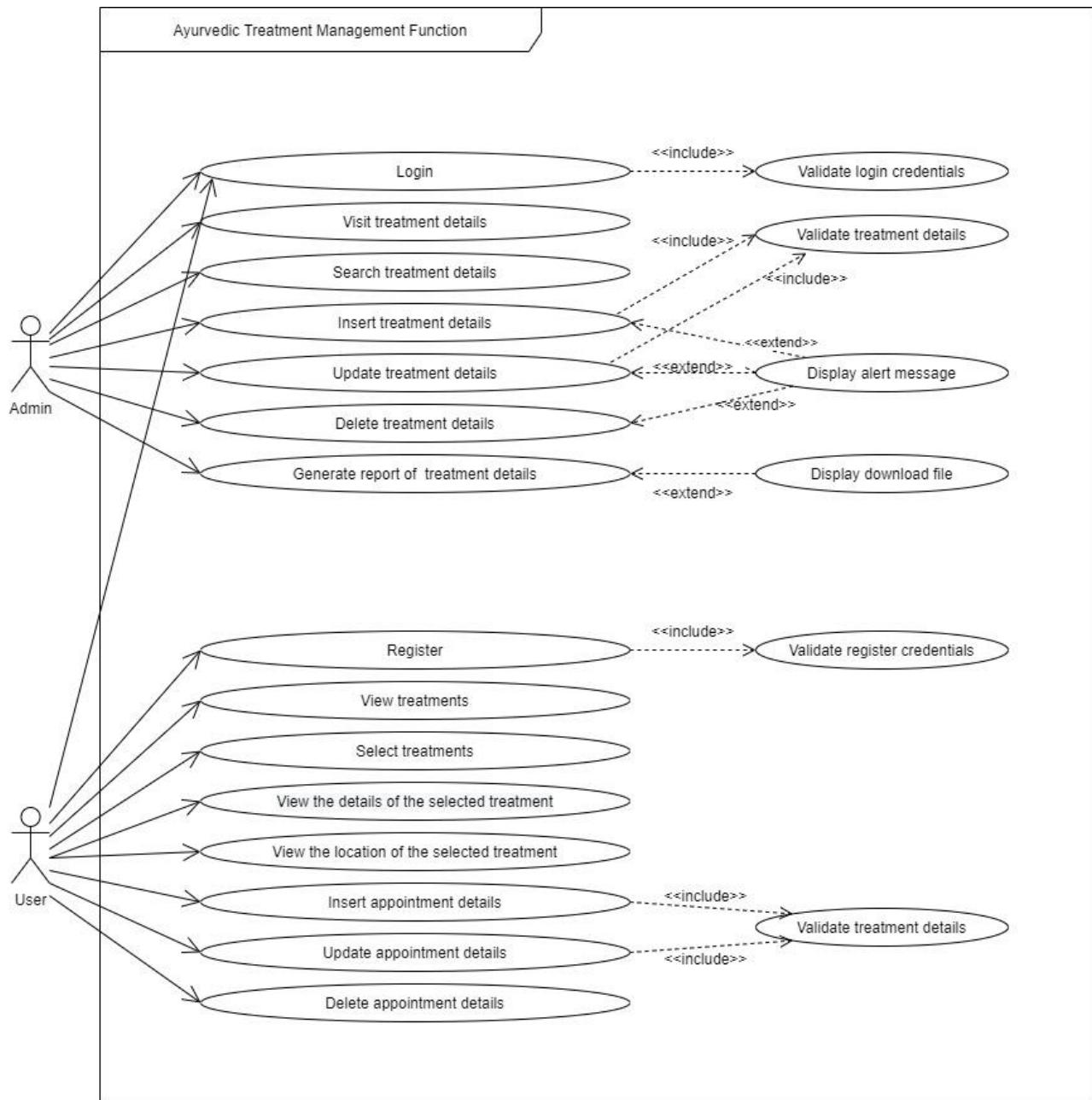


FIGURE 6 AYURVEDIC TREATMENT MANAGEMENT USE CASE DIAGRAM

2.1.1.7 Advertising Management Use Case Diagrams

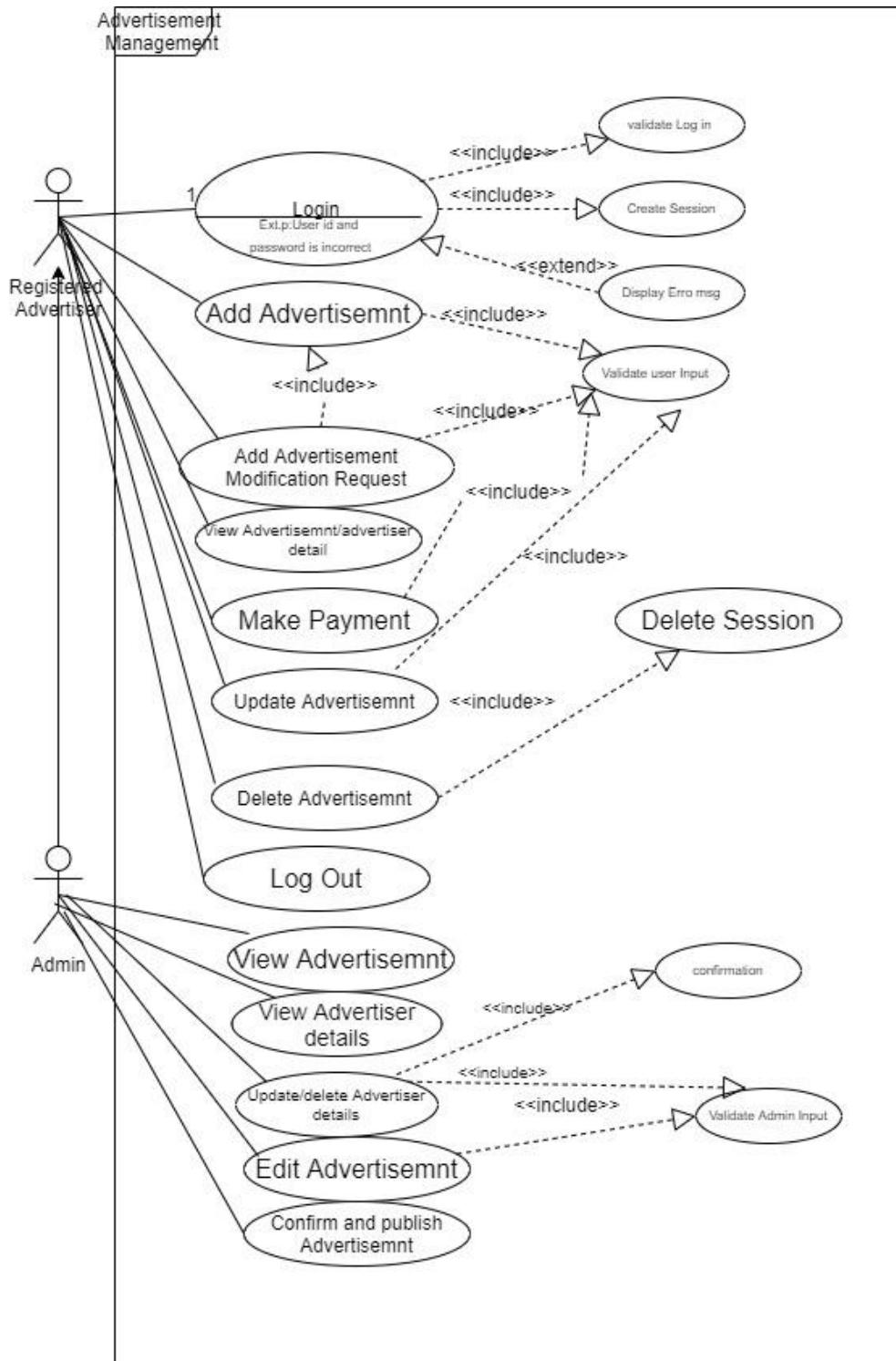


FIGURE 7 ADVERTISING MANAGEMENT USE CASE DIAGRAMS

2.1.1.8 Outdoor & Adventure Experiences Management Use Case Diagrams

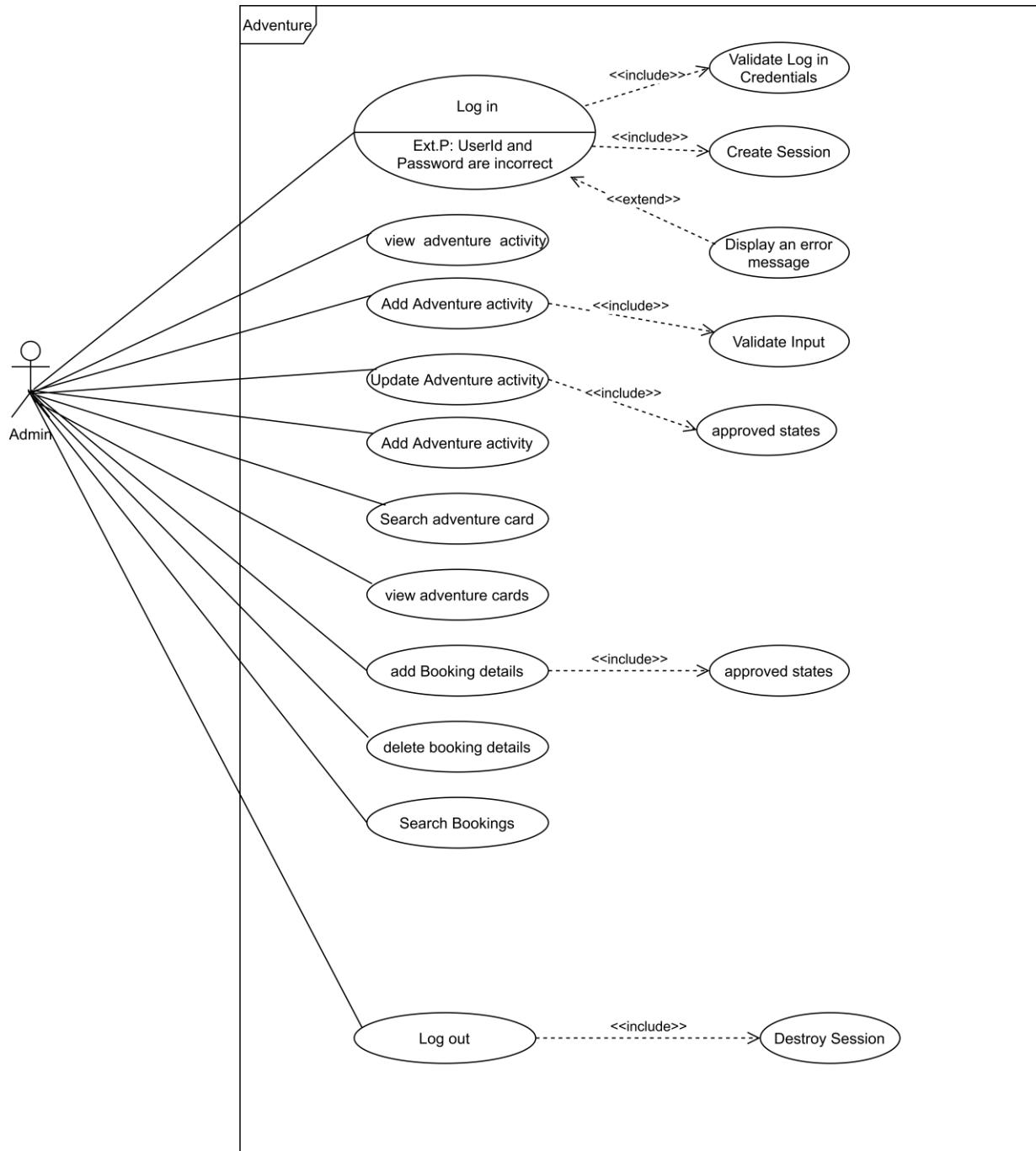


FIGURE 8 OUTDOOR & ADVENTURE EXPERIENCES MANAGEMENT USE CASE DIAGRAMS

2.1.2 Activity Diagrams

2.1.2.1 Hotel Management Activity Diagrams

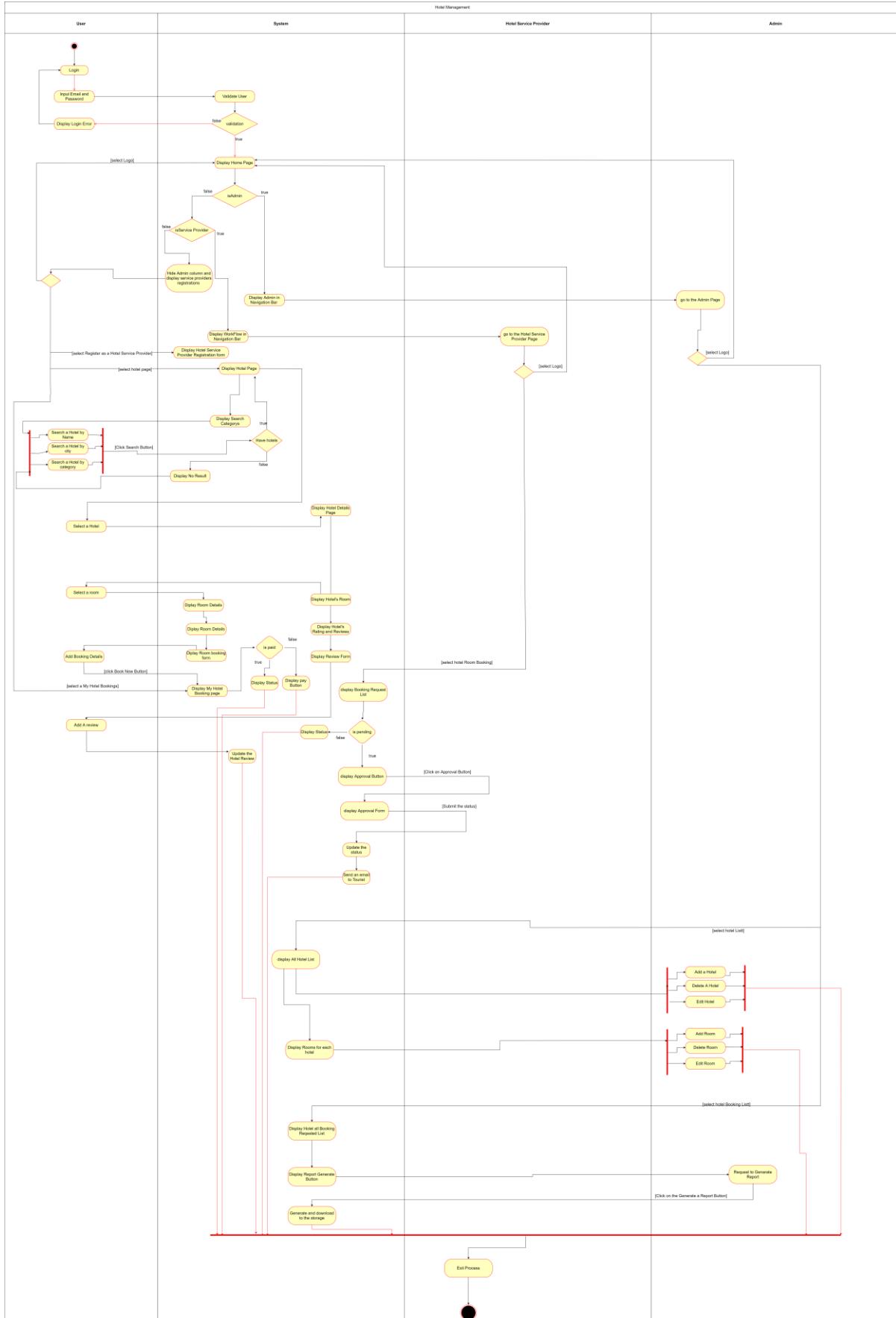


FIGURE 9 HOTEL MANAGEMENT ACTIVITY DIAGRAMS

2.1.2.2 Tour Guide Management Activity Diagrams

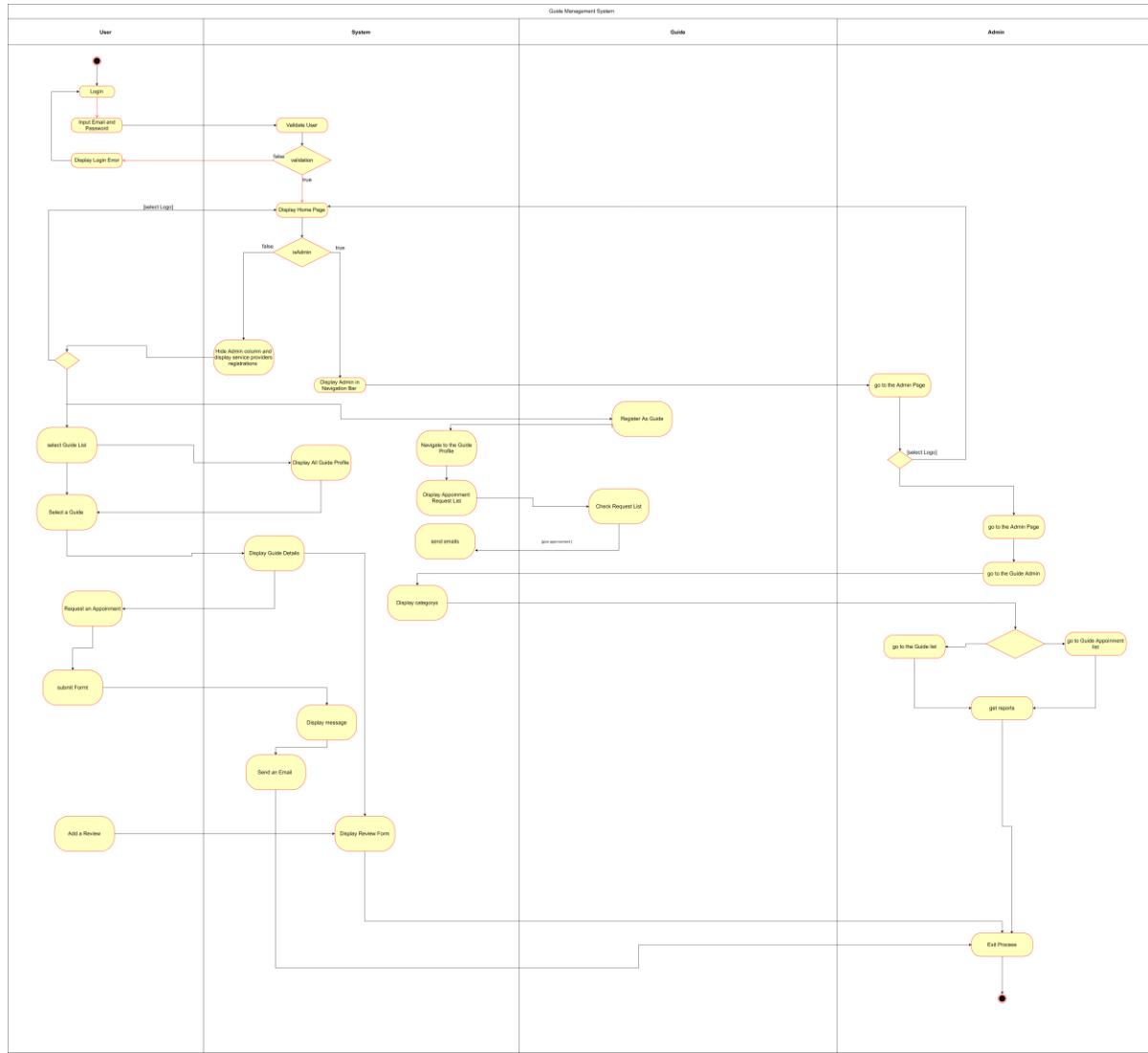


FIGURE 10 TOUR GUIDE MANAGEMENT ACTIVITY DIAGRAMS

2.1.2.3 Vehicle renting Management Activity Diagrams

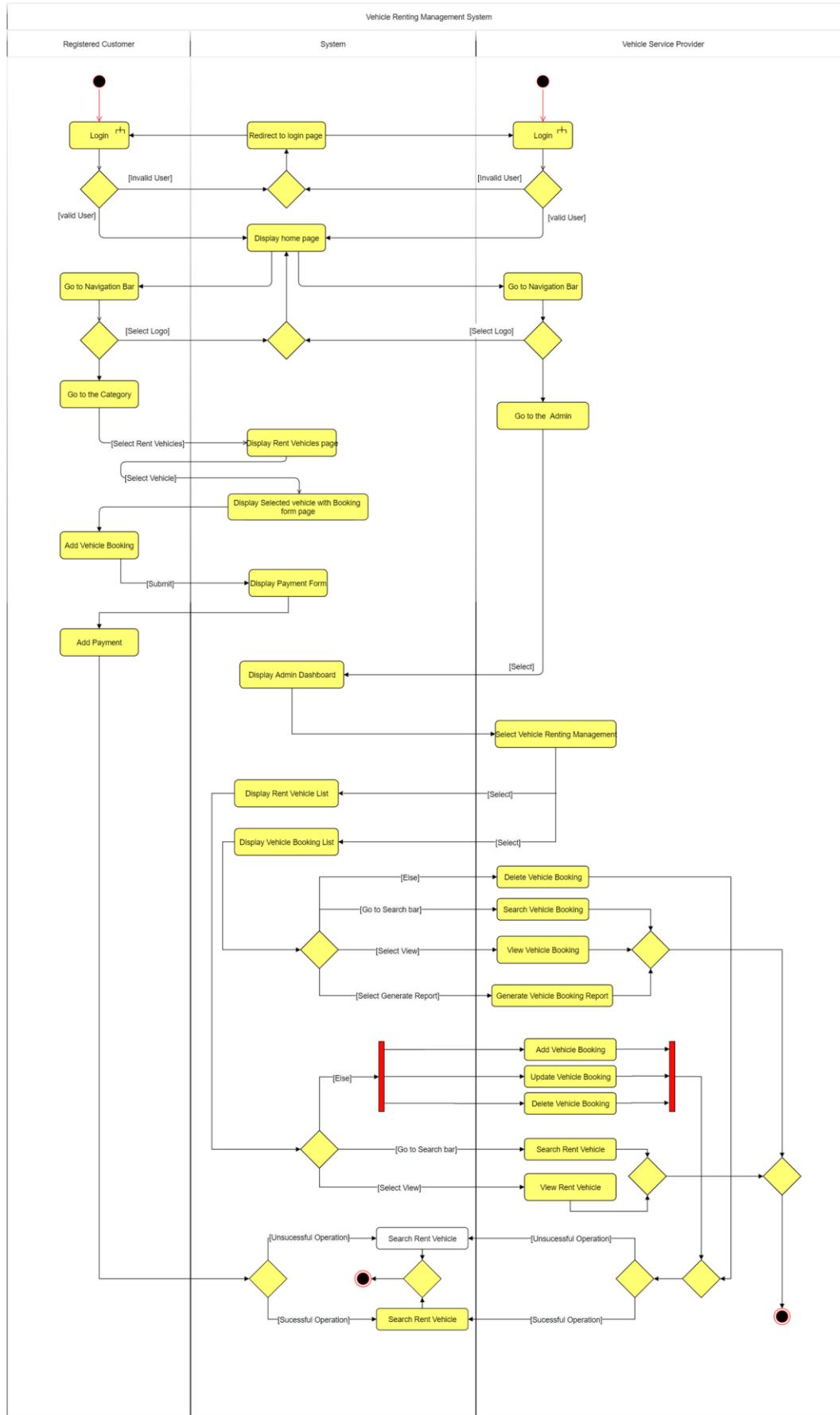


FIGURE 11 VEHICLE RENTING MANAGEMENT ACTIVITY DIAGRAMS

2.1.2.4 Payment Management Activity Diagrams

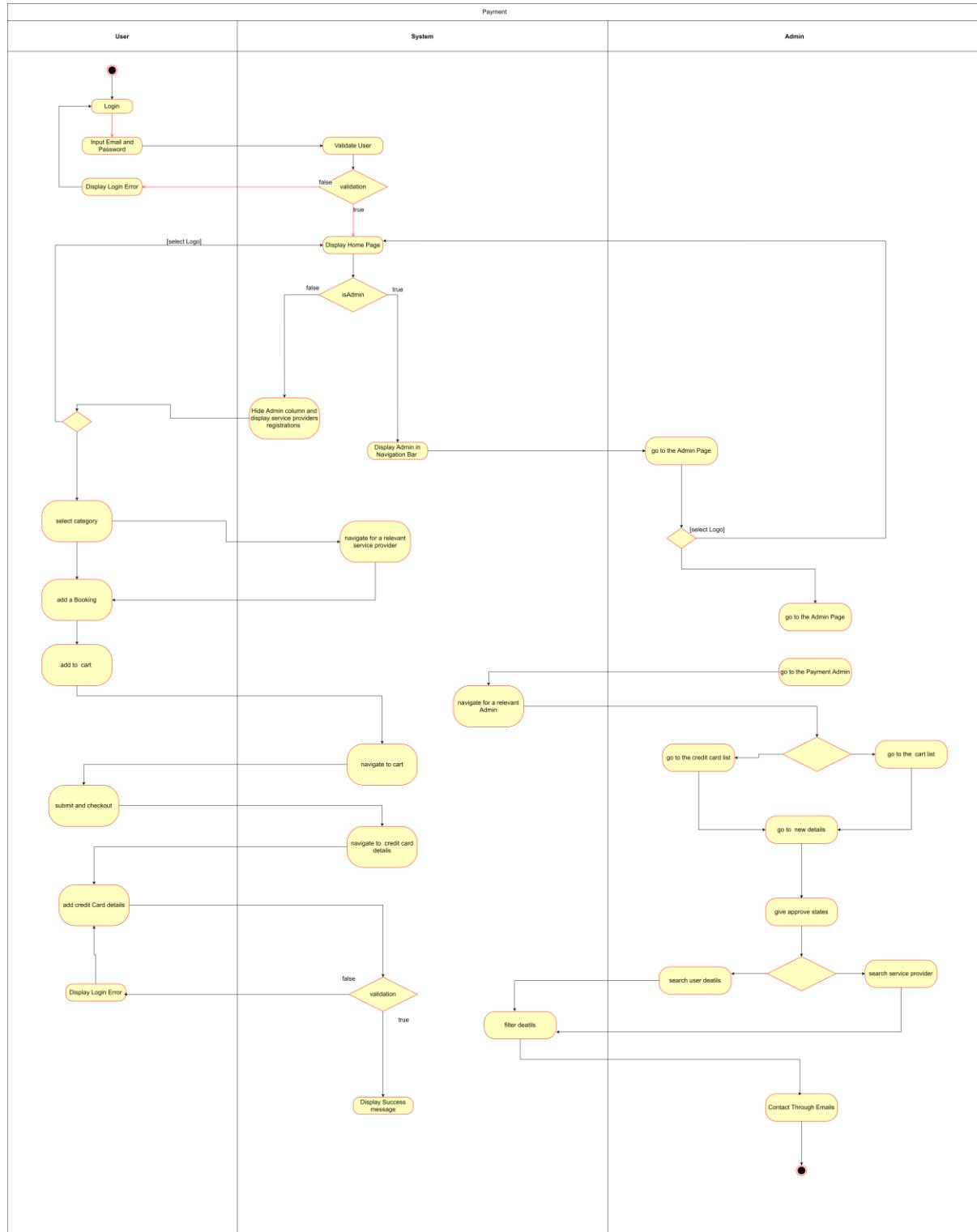


FIGURE 12 PAYMENT MANAGEMENT ACTIVITY DIAGRAMS

2.1.2.5 Tourism destination Management Activity Diagrams

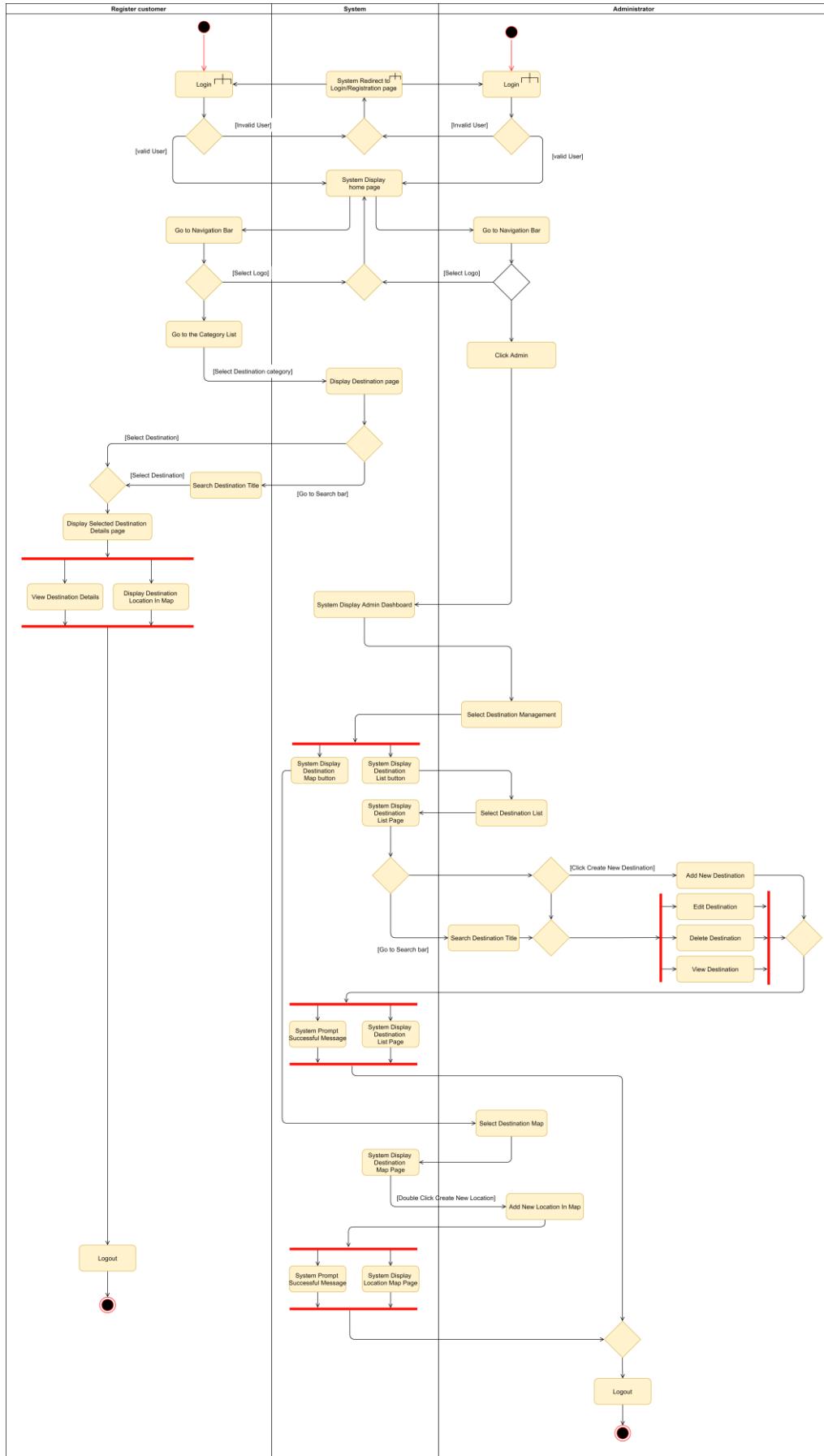


FIGURE 13 TOURISM DESTINATION MANAGEMENT ACTIVITY DIAGRAMS

2.1.2.6 Ayurvedic treatment management Activity Diagrams

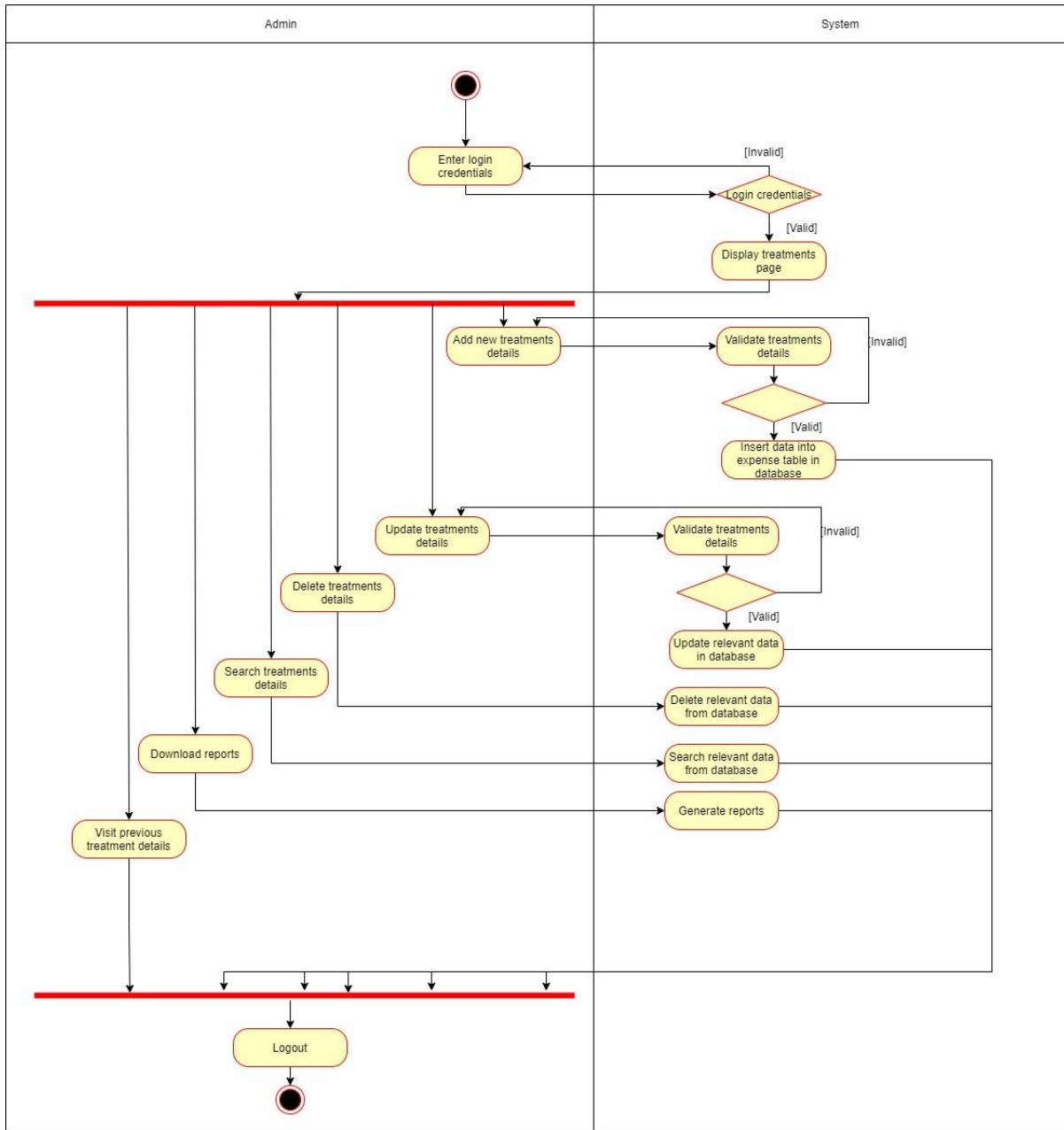


FIGURE 14 AYURVEDIC TREATMENT MANAGEMENT ACTIVITY DIAGRAMS

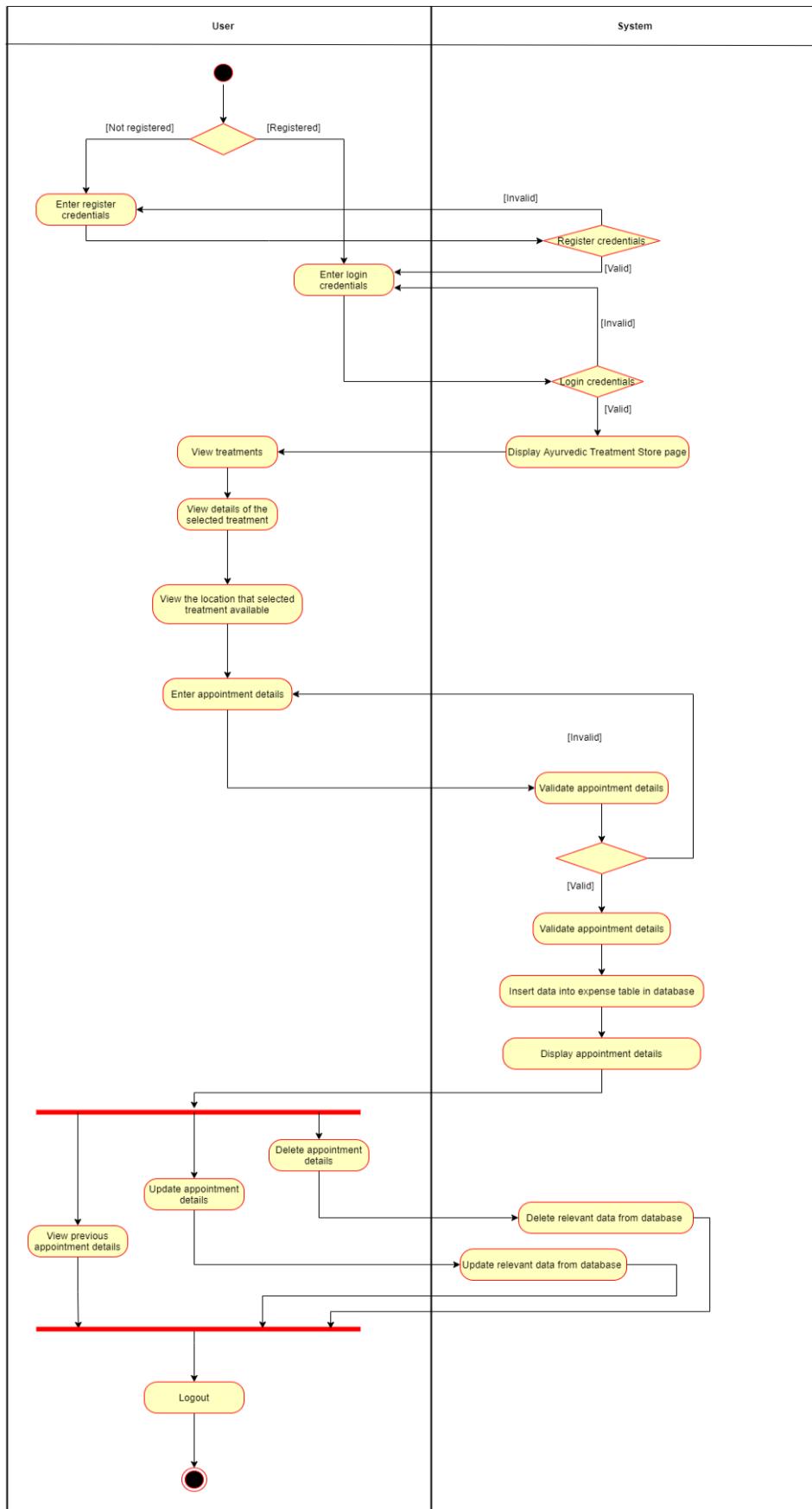


FIGURE 15 AYURVEDIC TREATMENT MANAGEMENT ACTIVITY DIAGRAM

2.1.2.7 Advertising Management Activity Diagrams

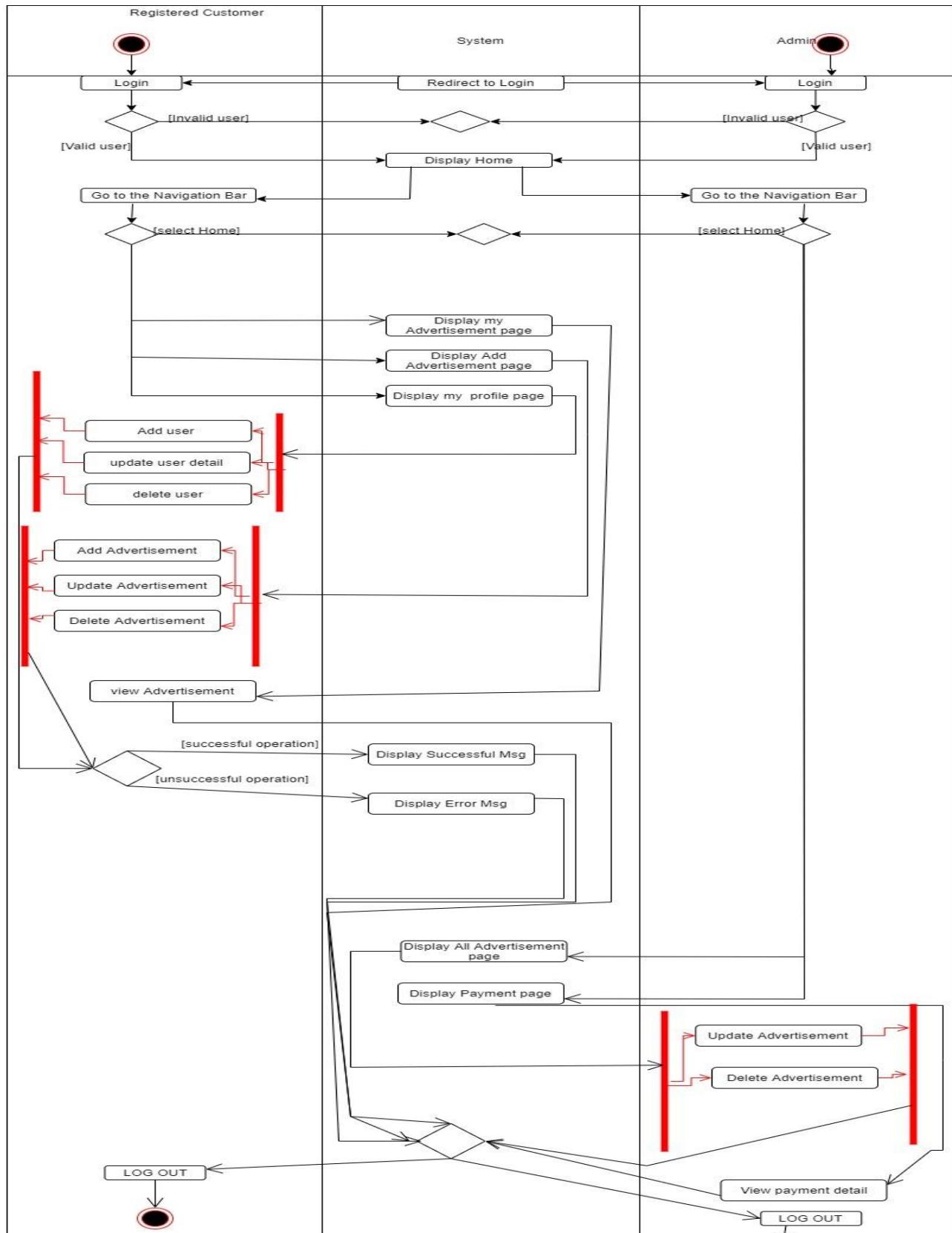


FIGURE 16 ADVERTISING MANAGEMENT ACTIVITY DIAGRAMS

2.1.2.8 Outdoor & Adventure Experiences Management Activity Diagrams

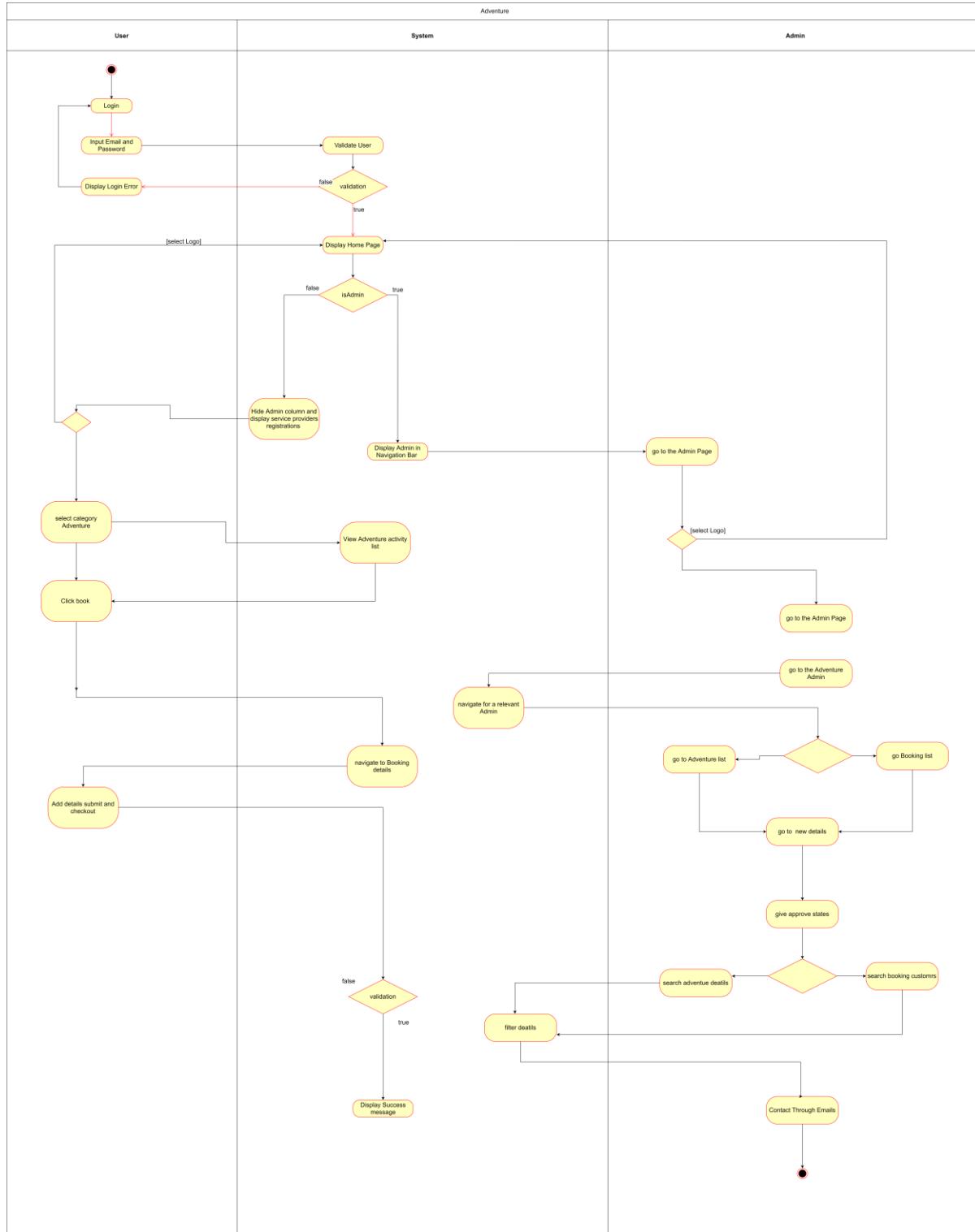


FIGURE 17 OUTDOOR & ADVENTURE EXPERIENCES MANAGEMENT ACTIVITY DIAGRAMS

2.2 Design

2.2.1 Class Diagram



FIGURE 18 CLASS DIAGRAM

2.2.2 Entity Relationship Diagram

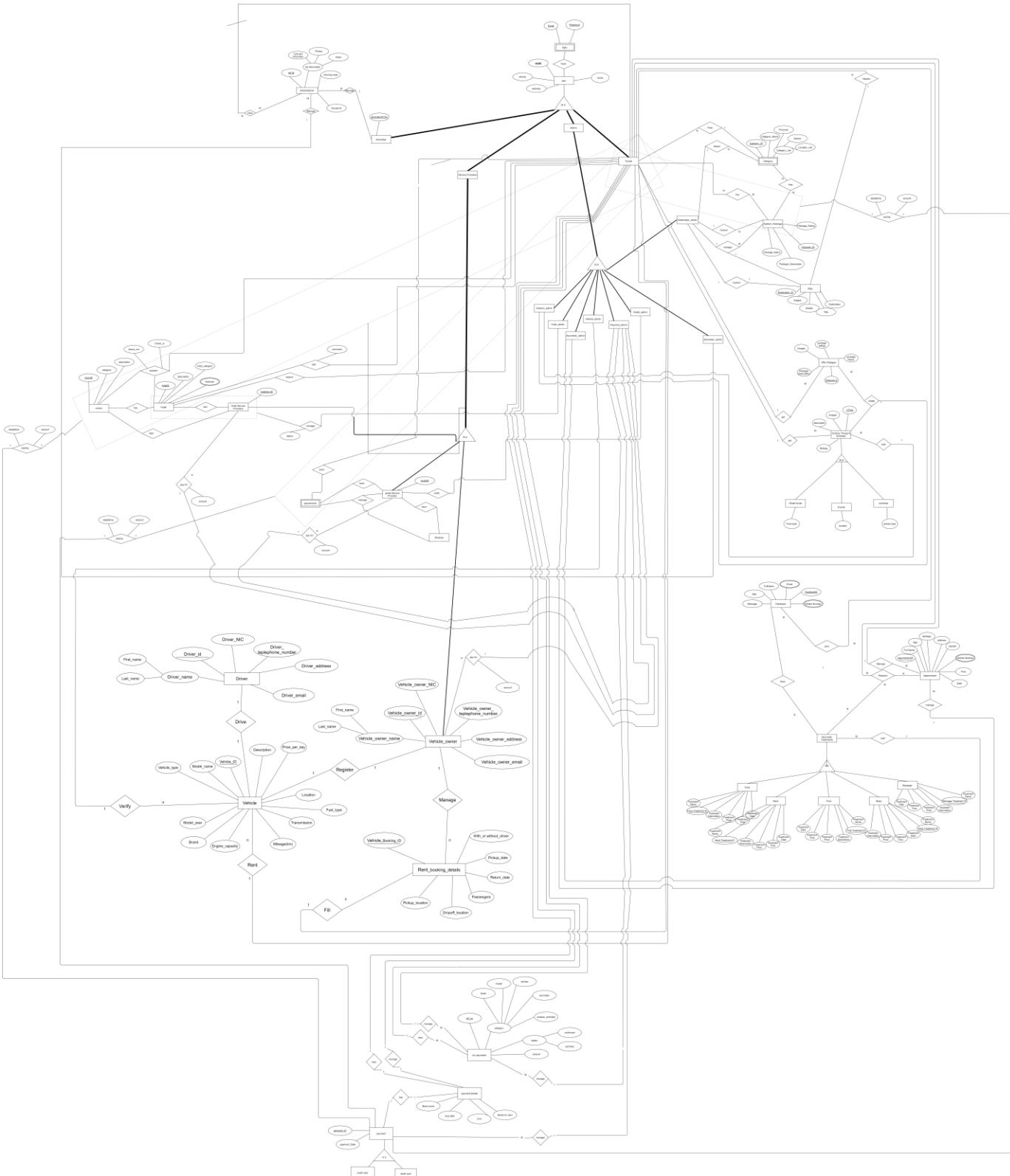


FIGURE 19 ENTITY RELATIONSHIP DIAGRAM

2.2.3 User Interfaces

2.2.3.1 User Management and Hotel Management

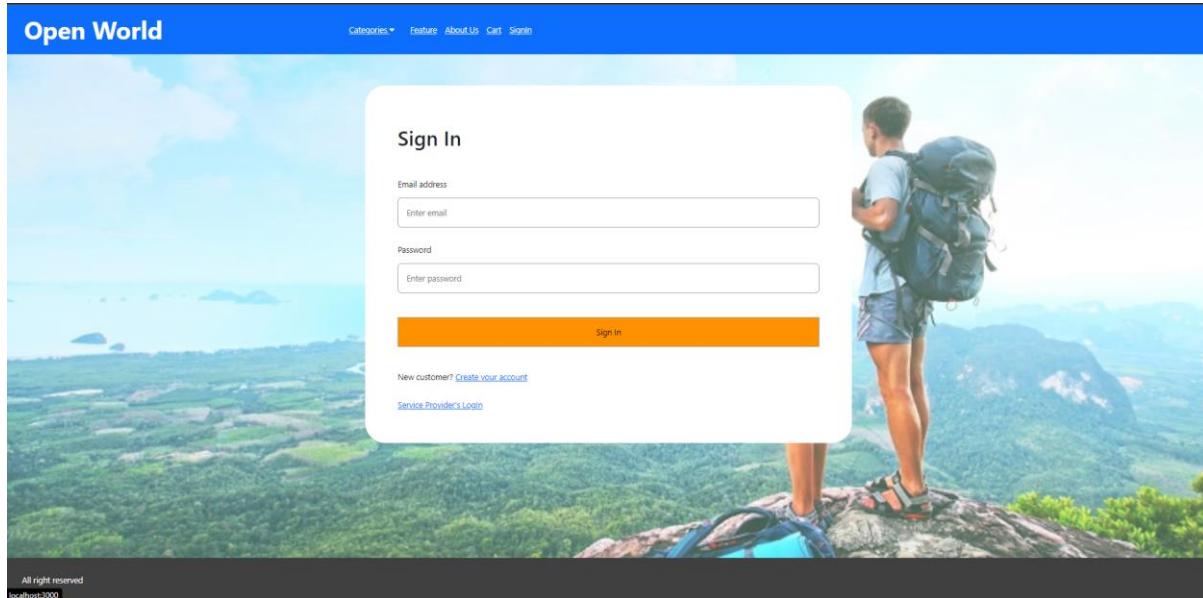


FIGURE 20 USER SIGNIN PAGE

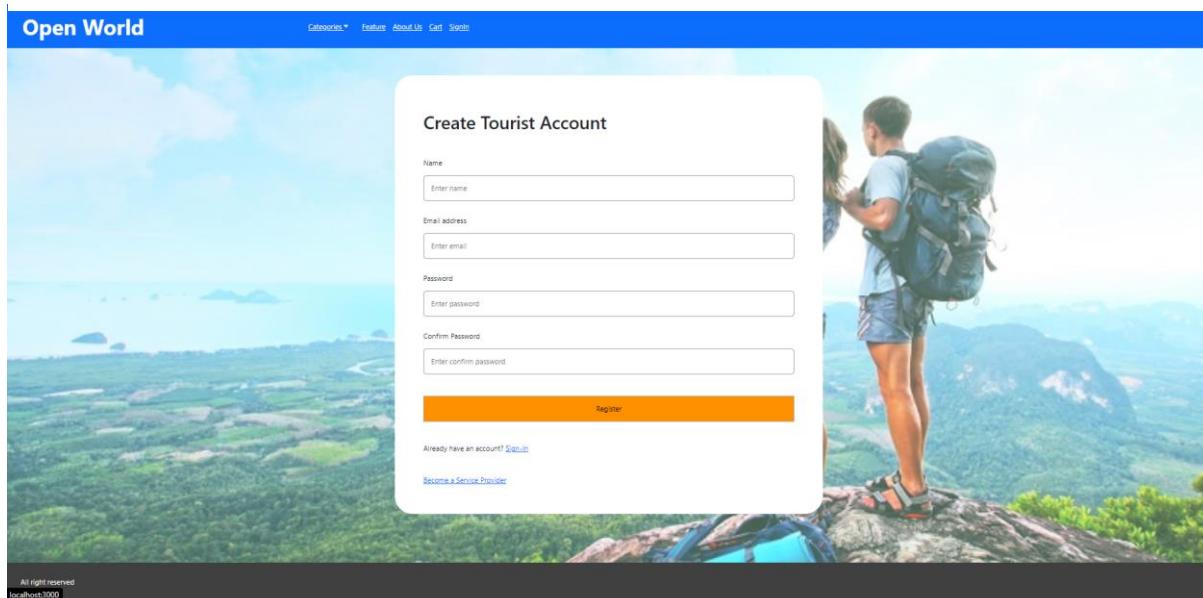


FIGURE 21 USER REGISTRATION PAGE

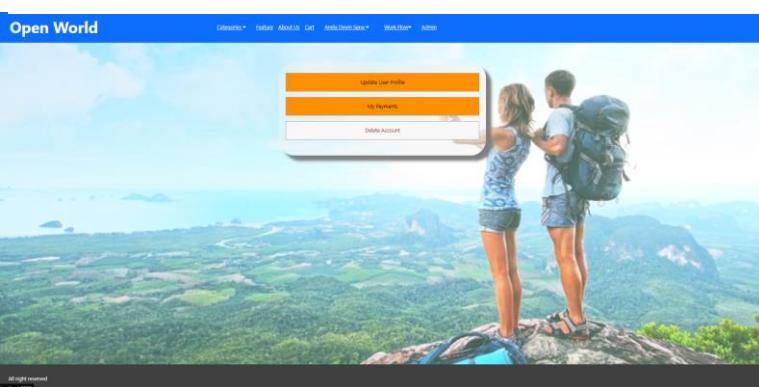


FIGURE 22 DELETE ACCOUNT MY PAYMENTS AND DELETE ACCOUNT PAGES NAVIGATION PAGE

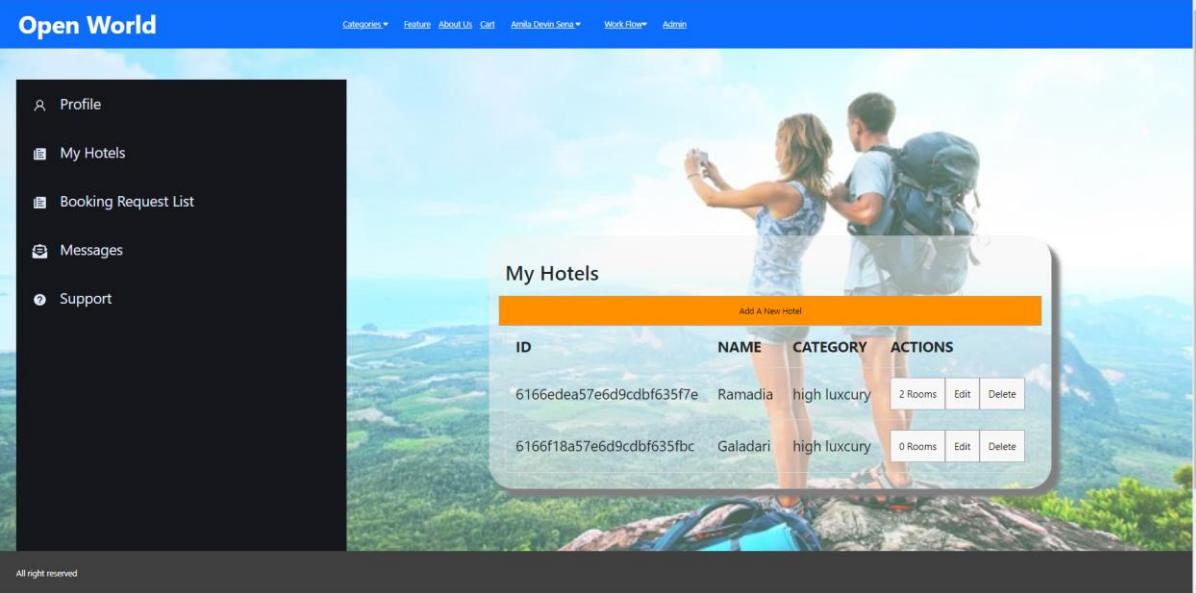


FIGURE 23 HOTEL SERVICE PROVIDER- HOTEL LIST PAGE (SAME AS ADMIN HOTEL LIST UI)

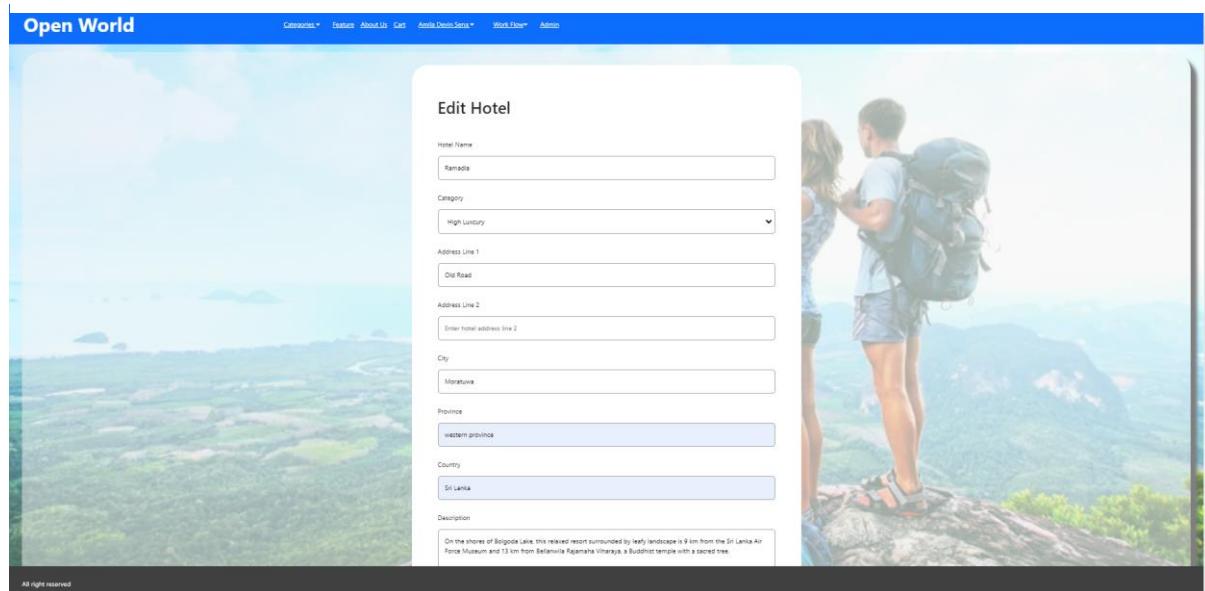


FIGURE 24 EDITE A HOTEL PAGE

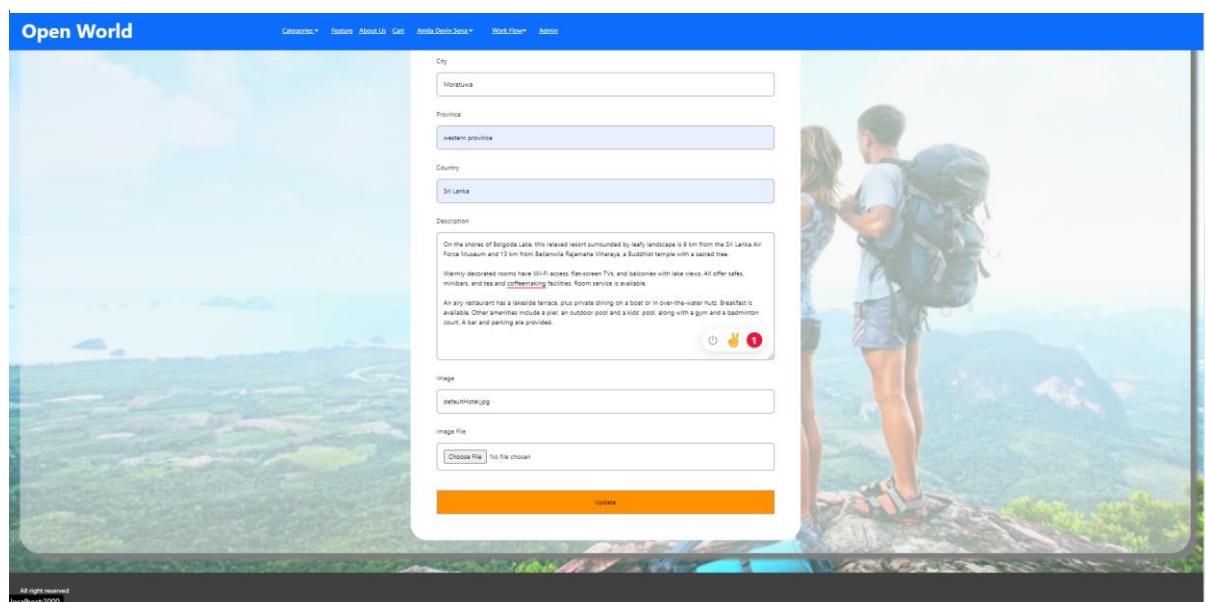


FIGURE 25 EDET HOTEL 2

All right reserved

FIGURE 26 ROOM LIST PAGE (SAME TO ADMIN AND HOTEL SERVICE PROVIDER)

All right reserved
localhost:3000

FIGURE 27 ADD A ROOM PAGE

All right reserved
localhost:3000/adminDashboard

FIGURE 28 ADMIN VIEW OF HOTEL LIST PAGE

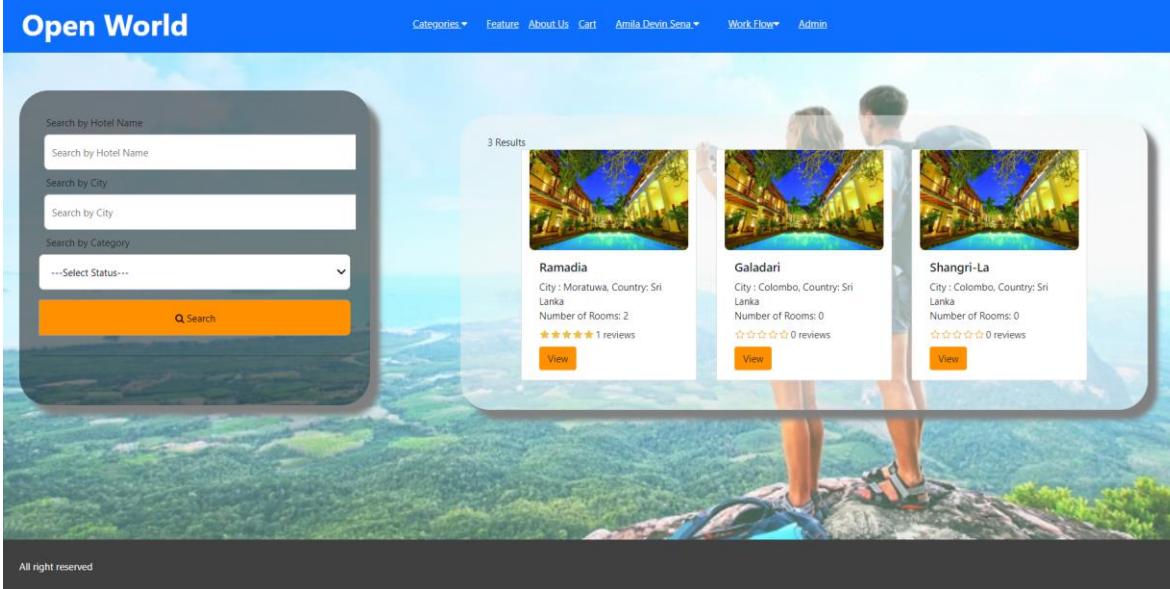


FIGURE 30 HOTELS PAGE + SEARCH OPTIONS

FIGURE 29 HOTEL DETAILS PAGE

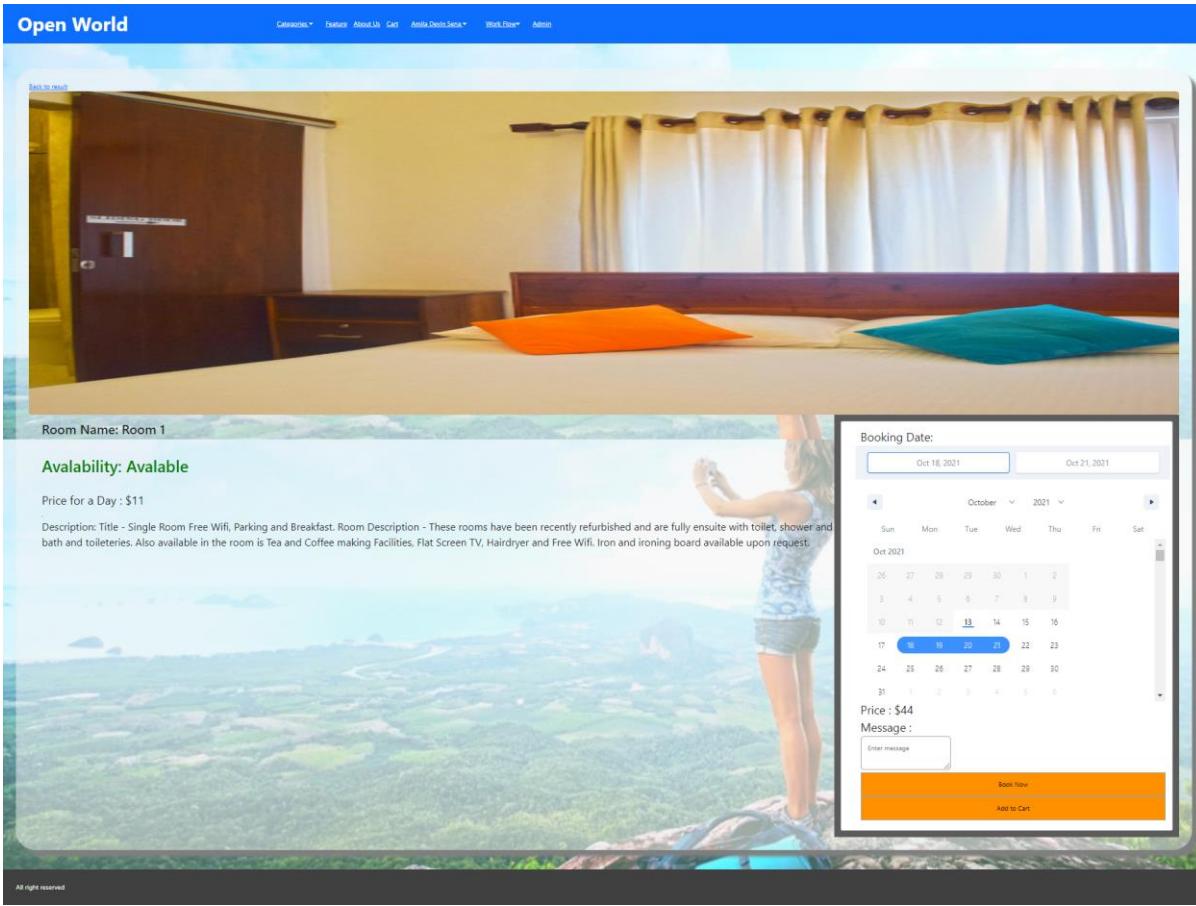


FIGURE 31 ROOM DETAILS PAGE

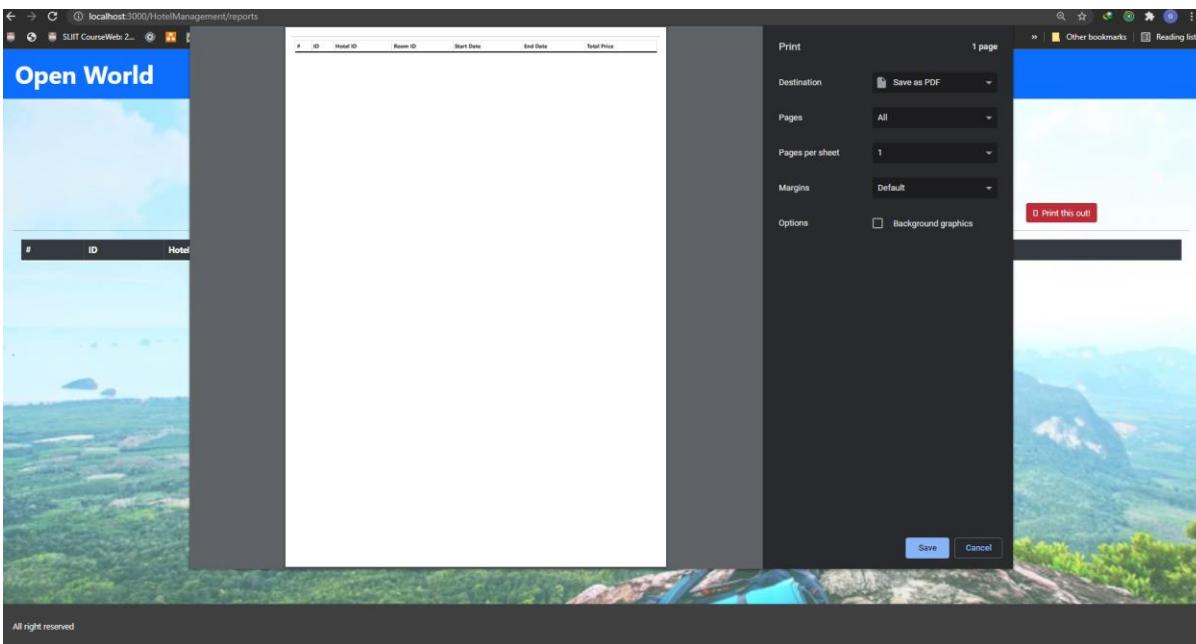


FIGURE 32 ADMIN GENERATED HOTEL ROOM BOOKING REPORT

Open World

Categories Feature About Us Cart Admin Devloper Service Work Flow Admin

My Hotel Bookings

ID	Hotel ID	Room ID	Check In	Check Out	Service Provider Acceptance	In Paid	Room Payment	Actions
6166f85157e6d9cd9c63601c	6166f85157e6d9cd9c635f7e	6166f85157e6d9cd9c635f80	2021-10-17T18:00:00Z	2021-10-20T18:00:00Z	accept	NO	\$44	<button>Pay</button>
6166f85157e6d9cd9c636035	6166f85157e6d9cd9c635f7e	6166f85157e6d9cd9c635f96	2021-10-17T18:00:00Z	2021-10-28T18:00:00Z	pending	NO	\$13	<button>Delete</button> <button>Pay</button>

All right reserved

FIGURE 33 TOURIST MY HOTEL ROOM BOOKING PAGE

Open World

Categories Feature About Us Cart Admin Devloper Service Work Flow Admin

Hotel Bookings

ID	Hotel ID	Room ID	Check In	Check Out	User ID	In Paid	Room Payment	Service Provider Acceptance
6166f85157e6d9cd9c63601c	6166f85157e6d9cd9c635f7e	6166f85157e6d9cd9c635f80	2021-10-17T18:00:00Z	2021-10-20T18:00:00Z	6166f85157e6d9cd9c635f240	NO	\$44	<input checked="" type="checkbox"/> accept
6166f85157e6d9cd9c636035	6166f85157e6d9cd9c635f7e	6166f85157e6d9cd9c635f96	2021-10-17T18:00:00Z	2021-10-28T18:00:00Z	6166f85157e6d9cd9c635f300	NO	\$13	<input type="checkbox"/> Give Approval

All right reserved

FIGURE 34 HOTEL SERVICE PROVIDER HOTEL BOOKING LIST

Open World

Categories Feature About Us Cart Admin Devloper Service Work Flow Admin

Approval Status for booking ID : 6166f85157e6d9cd9c636035

Category:

All right reserved

FIGURE 35 HOTEL SERVICE PROVIDER'S BOOKING APPROVAL PAGE

2.2.3.2 Tour Guide Management

Welcome to Guide World



Steering the way in Sri Lanka! Tourist guides provides the visitor with in depth knowledge in their mother tongue, smoothing creases and wrinkles that is bound to occur while touring a foreign country for the first time. It is best to choose a tourist guide who had been professionally trained and authorized by Sri Lanka tourism who are well versed in the local culture and customs. Private guides would be driving the vehicles traveling in luxury coaches driven by reserved drivers while Chauffeur Tourist Guides would be guiding small groups conveyed in small vans and luxury cars.

Guide Name	Language	Phone Number	Gender	Rating
Sankaka Perera	Sinhala, English, Tamil, Chinese	0713271636	Male	5 ★★★★★
Sathum Perera	Sinhala, Tamil, Hindi	0705432876	Male	5 ★★★★★
Sam Fernando	Japanese, Sinhala, Tamil, Chinese	0705432768	Male	5 ★★★★★
Pradeep Silva	Sinhala, English, Tamil, Chinese	0704432876	Male	5 ★★★★★
Francis Viegas	Sinhala, English, Tamil	0713271636	Male	5 ★★★★★
Hansha Kunkuma	Tamil	0705432876	Male	5 ★★★★★
Kavindu Fernando	Tamil	0705432876	Male	5 ★★★★★
Hashi Perera	Sinhala, English, Tamil, Japanese, Chinese, Hindi	0705432876	Female	5 ★★★★★

FIGURE 36 GUIDE LIST PAGE (TOURIST VIEW)

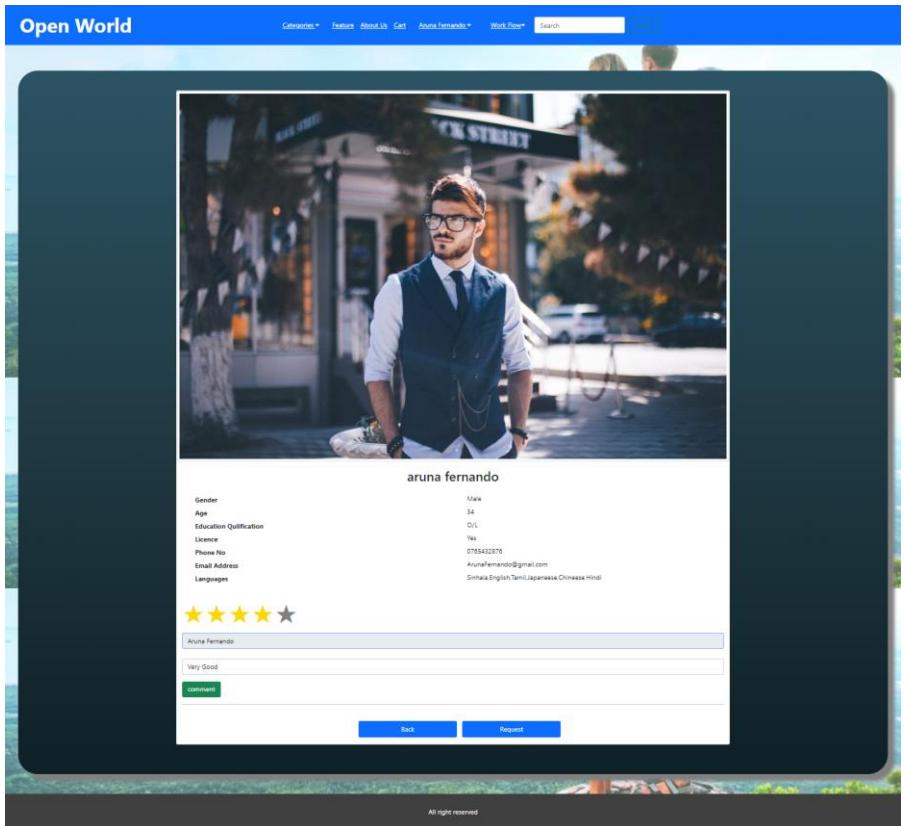


FIGURE 38 GUIDE PROFILE (TOURIST VIEW)

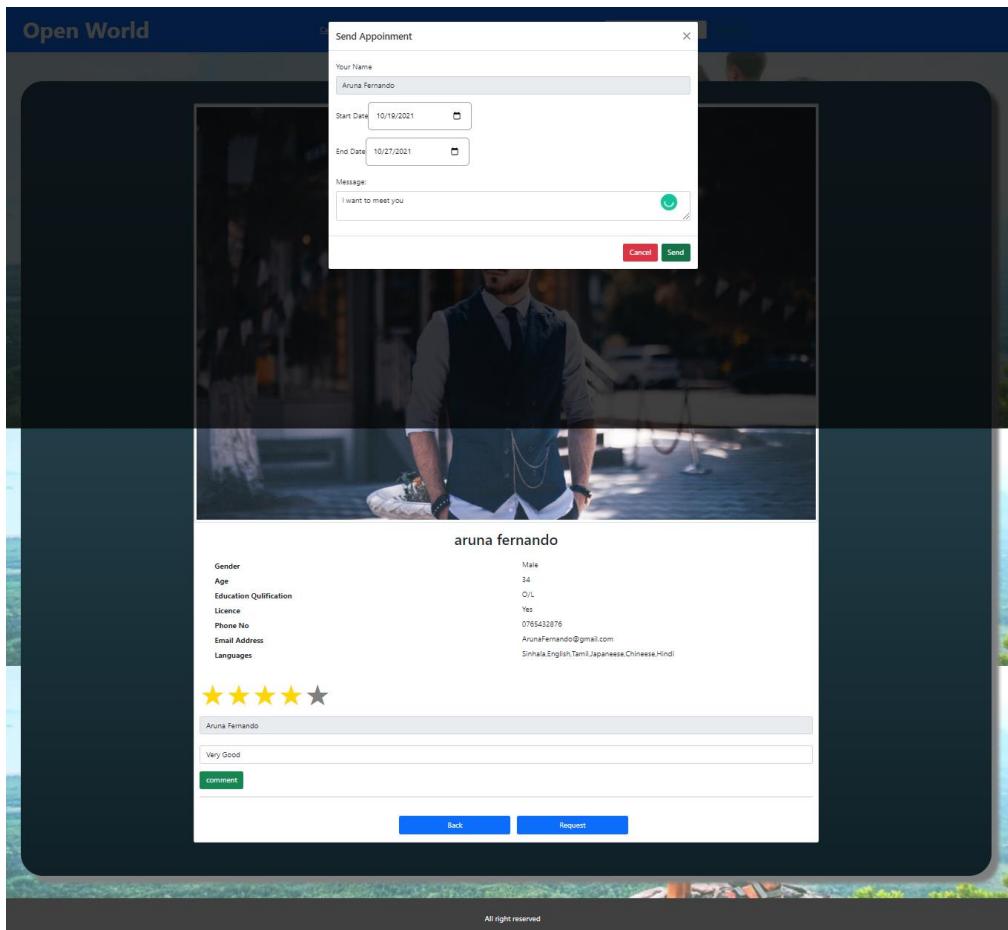


FIGURE 37 BOOK AN APPOINTMENT A GUIDE

Open World

Categories Feature About Us Cart Aruna Fernando Work Flow Search

Edit Guide Details

aruna fernando

34

Phone Number
076542876

Email Address
ArunaFernando@gmail.com

Gender
 Male Female

Do you have a Guide Licence
 Yes No

Education Qualification
 O/L A/L Higher Education

Languages that you can? ?
 Sinhala English
 Tamil Japanese
 Chinese Hindi

Add a Image*
Choose File img 4.jpeg

Edit Guide

All right reserved

FIGURE 39 EDIT GUIDE PROFILE PAGE

Open World

Categories Feature About Us Cart Hashini Work Flow Search

Guide Registration

Enter First Name Enter Last Name

Guide Age

Enter Phone Number

hashiperera@gmail.com

Gender
 Male Female

Do you have a Guide Licence
 Yes No

Education Qualification
 O/L A/L Higher Education

Languages that you can? ?
 Sinhala English
 Tamil Japanese
 Chinese Hindi

Add a Image*
Choose File No file chosen

Add Guide

All right reserved

FIGURE 40 REGISTER GUIDE PAGE

The screenshot shows the 'Guide Management' section of the Open World application. At the top, there is a navigation bar with links for Categories, Feature, About Us, Cart, T. Hashini Imantha, Work Flow, Admin, Search, and Logout. Below the navigation bar is a table titled 'Guide Management' containing the following data:

#	Guide Name	Languages	Contact Number	Gender	Guide Licence	Guide Education
1	malaka perera	Sinhala,English,Tamil,Chinese	0715273636	Male	Yes	Higher Education
2	sadun perera	Sinhala,Tamil,Hindi	0765432876	Male	Yes	A/L
3	Sam Fernando	Japanese,Hindi	0765432768	Male	Yes	Higher Education
4	Pradeep Silva	Sinhala,Tamil,Chinese	0765432876	Male	Yes	Higher Education
5	Francis Vagon	Sinhala,Tamil	0715273636	Male	Yes	A/L
6	Harsha Kunkuma	Tamil	0765432876	Male	Yes	O/L
7	kavindu fernando	Tamil	0765432876	Male	No	Higher Education
8	Hashi Perera	Sinhala,English,Tamil,Japanese,Chinese,Hindi	0765432876	Female	Yes	Higher Education
9	aruna fernando	English	0765432876	Male	Yes	O/L

At the bottom of the page, there is a footer with the text 'All right reserved'.

FIGURE 41 ADMIN GUIDE LIST REPORT GENERATOR

The screenshot shows a browser window on a Windows operating system. The address bar indicates the URL is `localhost:3000/GuideManagement/guidelist`. The main content area displays the same guide list table as Figure 41. Overlaid on the bottom right is a 'Print' dialog box from the 'Foxit Reader PDF Print' application. The dialog box shows the following settings:

- Destination: Foxit Reader PDF Print
- Pages: All
- Color: Color
- More settings (button)

The 'Print' button is highlighted in blue, while the 'Cancel' button is greyed out. The status bar at the bottom of the screen shows the date and time as 9:34 PM on 10/13/2021.

FIGURE 42 GUIDE LIST REPORT

The screenshot shows the Foxit Reader application window. The menu bar includes File, Home, Comment, View, Form, Protect, Share, Connect, Help, Extras, and a search bar. The toolbar has icons for Hand, Select, Tools, View, Comment, Create, Links, and Insert. The main content area displays a table titled "Open World.pdf - Foxit Reader". The table has columns: #, Guide Name, Languages, Contact Number, Gender, Guide Licence, and Guide Education. The data is as follows:

#	Guide Name	Languages	Contact Number	Gender	Guide Licence	Guide Education
1	malaka perera	Sinhala,English,Tamil,Chineese	0715273636	Male	Yes	Higher Education
2	sadun perera	Sinhala,Tamil,Hindi	0765432876	Male	Yes	A/L
3	Sam Fernando	Japaneese,Hindi	0765432768	Male	Yes	Higher Education
4	Pradeep Silva	Sinhala,Tamil,Chineese	0765432876	Male	Yes	Higher Education
5	Francis Vegon	Sinhala,Tamil	0715273636	Male	Yes	A/L
6	Harsha Kunkuma	Tamil	0765432876	Male	Yes	O/L
7	kavindu fernando	Tamil	0765432876	Male	No	Higher Education
8	Hashi Perera	Sinhala,English,Tamil,Japaneese,Chineese,Hindi	0765432876	Female	Yes	Higher Education
9	aruna fernando	English	0765432876	Male	Yes	O/L

The status bar at the bottom shows page 1/1, zoom level 158.09%, and system information like battery level, signal strength, and date/time.

FIGURE 43 GUIDE REPORT PDF

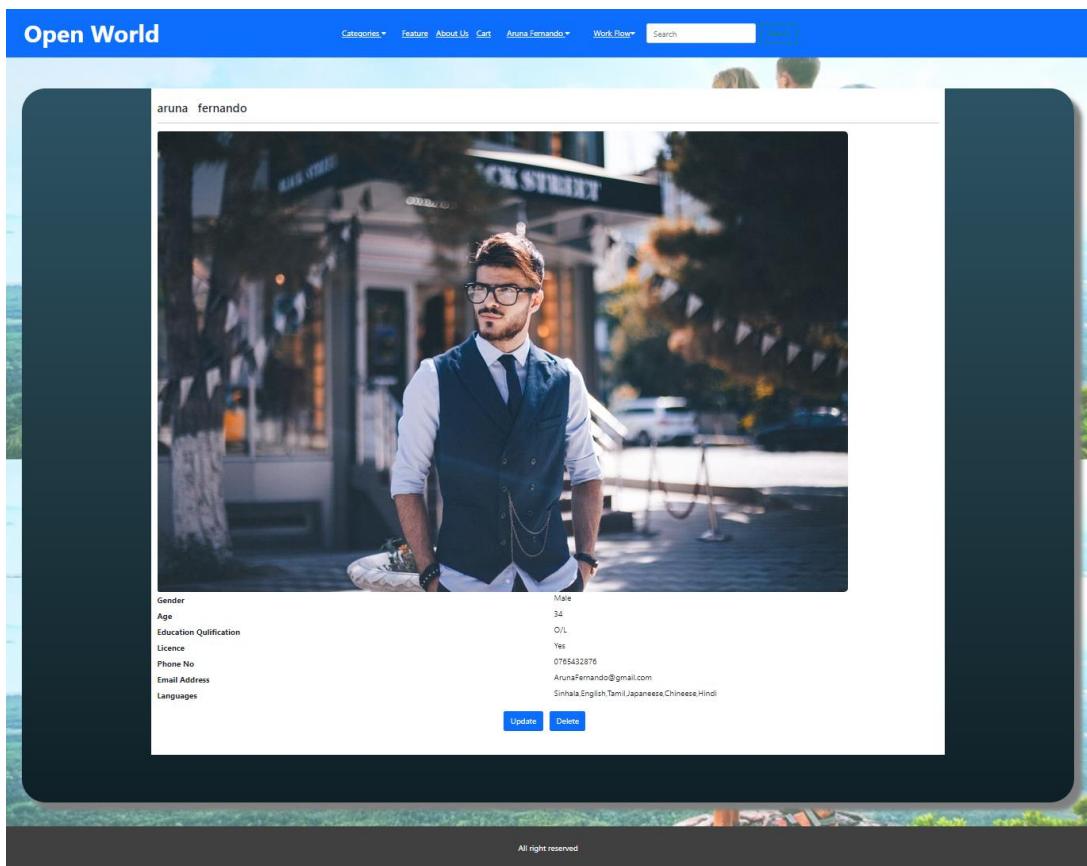


FIGURE 44 GUDU PROFILE

2.2.3.3 Vehicle renting Management

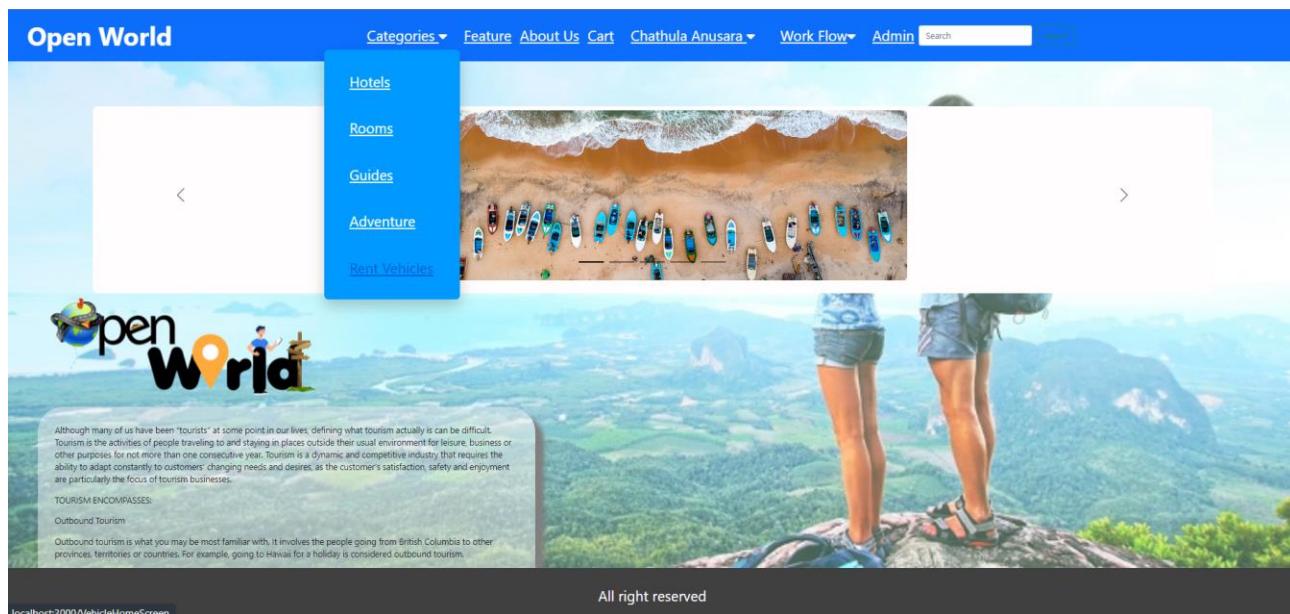


FIGURE 45 RENT VEHICLES MAIN PAGE

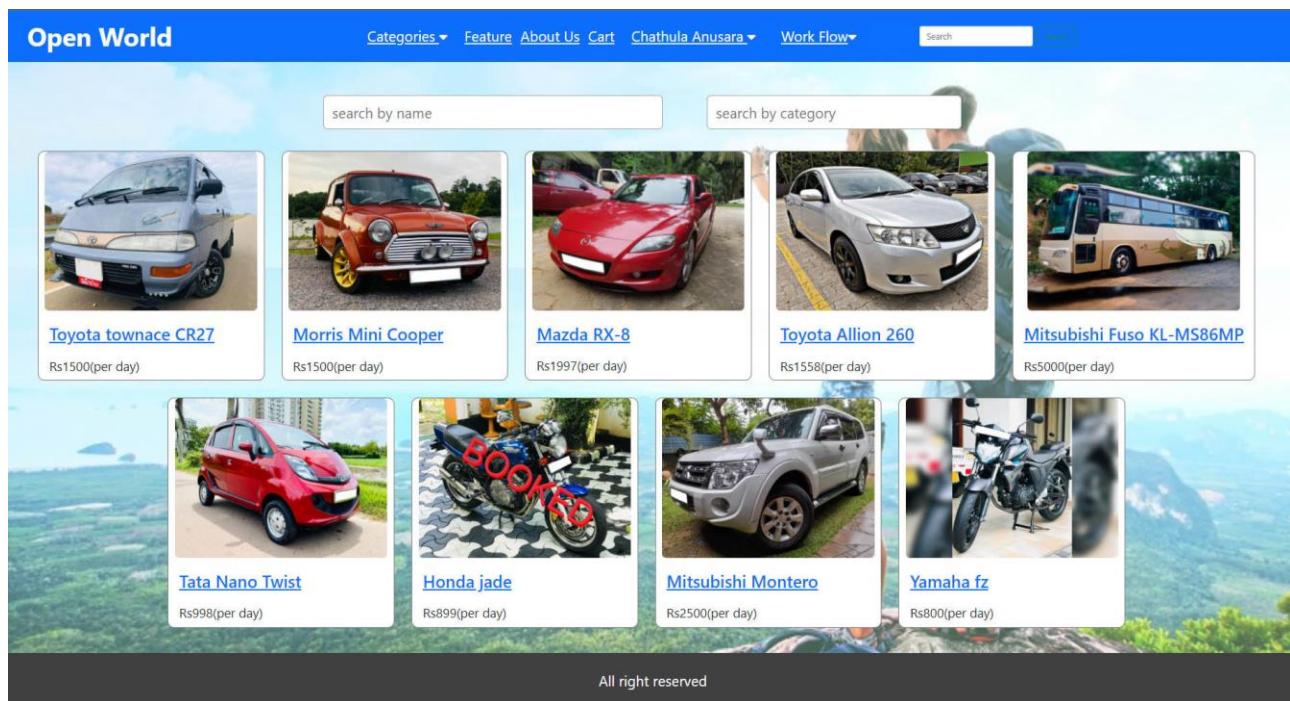


FIGURE 46 SELECTED VEHICLE PAGE

Open World

Categories ▾ Feature About Us Cart Chatula Anusara ▾ Work Flow ▾

Search:



WORRIED ABOUT GERMS ON CLOTHES? BUY NOW

name	Mazda RX-8
brand	Mazda
year	2003
category	coupe
seat capacity	4
description: 1300 cc/Manual 6 Forward Gear/Sport Model	
contact number	0766123721
price per day	Rs1997

Booking Details

Your Name	Your Contact Number
Enter your name	Enter Contact Number
Email	Time
Enter your email	---:---:--
Pickup Location	Drop off Location
Address....	Address....
Pickup Date	Return Date
mm/dd/yyyy	mm/dd/yyyy
Need Driver?	<input type="checkbox"/> Yes / No
Submit	



All right reserved

FIGURE 47 ADMIN SIDE BAR

Open World

Categories ▾ Feature About Us Cart Chatulla Anusara ▾ Work Flow ▾ Admin Search

Sidebar Dropdown

Click on the dropdown button to open the dropdown menu inside the side navigation.
This sidebar is of full height (100%) and always shown.
Some random text..

All right reserved

localhost:3000/adminDashboard#UserManagement

- Dashboard
- User Management
- Hotel Management
- Guide Management
- Rent Vehicle Management
 - Rent Vehicle List
 - Vehicle Booking List
- Payment Management
- Adventure Management

FIGURE 48 ADMIN VEHICLES LIST PAGE

Open World														
Categories ▾ Feature About Us Cart Chathula Anusara ▾ Work Flow Admin <input type="text" value="Search"/> Logout														
<input type="text" value="search"/> Create New Vehicle														
# booked	name	brand	price_per_day	image1	image2	image3	image4	image5	year	category	seat_capacity	description	contact_number	Action
1	Toyota townace CR27	Toyota	Rs1500						2000	van	7	Original auto gear/Dual AC/Power shatter and mirror/Central lock and remort key 2/TV Setup and subwoofer/5door/high roof,	0717575811	Edit Delete
2	Morris Mini Cooper	Morris	Rs						1965	coupe	4	Airbag/Auto gear/Black leather interior with teak dashboard and door trims/Sony head unit with clarion and Kenwood speakers with Kenwood twitters/side mirrors/No tinkering/only 8100km done/All the meters work	0768954238	Edit Delete
3	Mazda RX-8	Mazda	Rs1597						2003	coupe	4	1300 cc/Manual 6 Foward Gear/Sport Medel	0766123721	Edit Delete
4	Toyota Allion 260	Toyota	Rs1558						2007	sedan	4	Push start/Dual multifuntion/Smart key/Fabric & teak interior/Welcome lights/Rear wiper/Nicle door handles/3D carpets/New tyres	0762116679	Edit Delete
5	Mitsubishi Fuso KL-MS86MP	Mitsubishi	Rs5000						1999	bus	29	A/C power steering /power door / new battary / new front tyre	0702617599	Edit Delete
6	Tata Nano Twist	Tata	Rs998						2015	Hatchback	4	Mileage 90,000 Kms/624cc Petrol EFI Engine/Manual Transmission/Air Conditioner/Power Steering/CD / Radio	0771456245	Edit Delete
7 BOOKED	Honda Jade	Honda	Rs899						2011	motorcycles / bike	2	signal lights local/All sensor are working/All meters working/new tyres/New disc pad/New chain sprocket	0774693080	Edit Delete
8	Mitsubishi Montero	Mitsubishi	Rs2500						2013	suv	6	Company imported Brand new/3.2L Turbo/Front and Rear Camera/Power Mirrors/Power Shutters/Original 3M safety Stickers attached	0718390315	Edit Delete
9	Yamaha fz	Yamaha	Rs800						2018	motorcycles / bike	2	2018 Manufactured>Showroom Condition/No Any Damages/25000KM/Genuine Mileage	0754220134	Edit Delete

FIGURE 49 ADMIN VEHICLE BOOKING LIST PAGE

Open World														
Categories ▾ Feature About Us Cart Chathula Anusara ▾ Work Flow Admin <input type="text" value="Search"/> Logout														
<input type="text" value="search"/> Create New Vehicle														
# name	vehicle name	contact number	email	time	pickup_location	Dropofflocation	pickupdate	returndate	need_driver	action				
1 harsha kunkuma	Toyota townace CR27	0718390315	harshakunkuma@gmail.com	14:22	25/7, kesselwaththa, sagabo road, panadura	Baddulla	2021-10-17	2021-10-20	No	Reject				
2 Chathula Anusara	Morris Mini Cooper	0764006868	c.a.w.kumarasinghe@gmail.com	13:45	150, matara road, tangalle	shangri-la hambantota	2021-10-17	2021-10-20	No	Reject				
3 Gayan Sandakula	Mazda RX-8	0784569852	GayanSandakula@gmail.com	14:10	265/ samagi road, borella	kathunayaka air port	2021-10-26	2021-10-26	Yes	Reject				
4 Amila Devin	Toyota Allion 260	0712584569	AmilaDevin@gmail.com	06:03	kathunayaka air port	shangri-la colombo	2021-11-14	2021-10-14	Yes	Reject				
5 Thevindu Nithika	Mitsubishi Fuso KL-MS86MP	0764895128	ThevinduNithika@gmail.com	05:15	56/8, sirwardhan road, Moratuwa	Jaffna	2021-10-24	2021-10-28	No	Reject				
6 Janindu Hansa	Tata Nano Twist	07165473195	JaninduHansa@gmail.com	15:21	Galadari Colombo	shangri-la hambantota	2021-12-20	2021-12-23	Yes	Reject				

FIGURE 50 ADMIN VEHICLE BOOKING LIST PAGE

2.2.3.4 Payment Management

The screenshot shows a payment card form titled "Card Details". The form includes fields for Name On Card (Sandun Perera), Bank Name (sampath Bank), Card Number (input field with placeholder "Enter credit card number"), CVV (input field with placeholder "****"), Ex. date (input field with placeholder "mm/dd/yyyy"), and a checkbox labeled "Approved". Below the form are logos for VISA, MasterCard, DISCOVER, and AMEX. At the bottom right are "Check out" and "Clear" buttons.

All right reserved

FIGURE 51 PAYMENT CARD FORM PAGE

The screenshot shows an "ADMIN VIEW PAYMENTS" page. On the left is a sidebar with navigation links: Dashboard, User Management, Hotel Management, Guide Management, Rent Vehicle Management, Payment Management, Adventure Management, and Support. The main area displays a table of payment cards:

Name On Card	Bank Name	Card No	CVV	Ex.date	Approved	Edit	Delete
dsun	dtt	370000000000002	1234	2021-10-11	true	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
chathula	HNB	370000000100018	1234	2021-10-19	true	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Janbu Gunasighe	NDB	2223400070000005	1234	2021-10-13		<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Below the table is a form for adding a new card, with fields for Name On Card, Bank Name, Card Number, CVV, Ex. date, and Approved. At the bottom right are "Send" and "Clear" buttons.

All right reserved

FIGURE 52 PAYMENT CARD LIST ADMIN VIEW

Open World

Categories • Features • About Us • Get • Thevinuka Fernando • Work Flow • Admin • Search • Log Out

Card Details

Name On Card: Sandun Perera
Name On Card Required

Bank Name: Sampath Bank
Bank Required

Card Number: Enter credit card number
Card Number Required

CVV: CVV Required

Ex. date: mm/dd/yyyy
Expire date Required

VISA MASTERCARD DISCOVER AMEX

Check out Clear

All right reserved

FIGURE 53 CARD PAYMENT VALIDATIONS

The screenshot shows a web application titled "Open World" with a header containing links like "Categories", "Index", "Dashboard", "Get", "DeleteRecords", "WorkFlow", "Admin", and "Logout". A search bar is also present. The main content area is titled "ADMIN VIEW BOOKING" and contains a form with fields for "order", "hostel", "vehicle", "guide", "outdoor", "aparantic", "paymentscheme", "total", and "Approved". Below the form are two buttons: "Save" (green) and "Clear" (red). At the bottom, there is a table with columns: "User ID", "Hotel", "vehicle", "guide", "outdoor", "aparantic", "Payment status", "Total", "expenses", "Booking", and "Status". Three rows of data are listed, each with a yellow "Edit" button and a red "Delete" button. The background of the entire interface is a scenic view of green hills and mountains under a blue sky.

The image shows a screenshot of a web application interface. At the top, there is a blue header bar with the title "Open World" on the left. To the right of the title are several navigation links: "Categories", "Feature", "About Us", "Cat", "Thevinakku Fernando", "Work Flow", and "Admin". There is also a search bar with a magnifying glass icon. The main content area has a light blue background with a faint watermark of a landscape scene. In the center, there is a white rectangular form titled "Card Details". This form contains fields for "Name On Card" (with "Sandun Perera" entered), "Bank Name" (with "sampath Bank" entered), and "Card Number" (with "411111145551142" entered). Below these fields are icons for VISA, MasterCard, DISCOVER, and AMEX. There are also fields for "CVV" (containing four asterisks) and "Ex. date" (containing "10/17/2021"). At the bottom of the form are two buttons: a green "Check out" button and a red "Clear" button. The overall design is clean and modern, with a focus on user input.

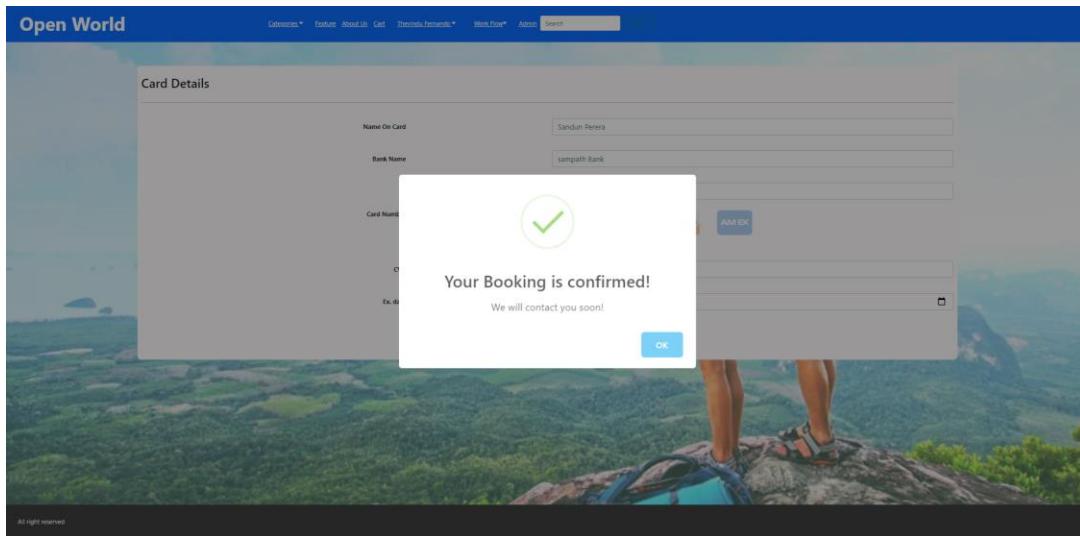


FIGURE 54 PAYMENT SUCCESSFUL MESSAGE

2.2.3.5 Tourism destination Management

Open World

Categories Feature About Us Cart Inquiries Work Flow Admin Search [Logout](#)

All Destinations

The banner image shows a large, rugged rock formation (Sigiriya) rising from a lush green landscape under a cloudy sky. A white search bar is positioned in front of the image. Below the banner, the text "Open World" is displayed in a large, bold, white font. Underneath "Open World" is the tagline "To change lives." followed by a horizontal line.

Polonnaruwa

Anuradhapura

Galadari Hotel

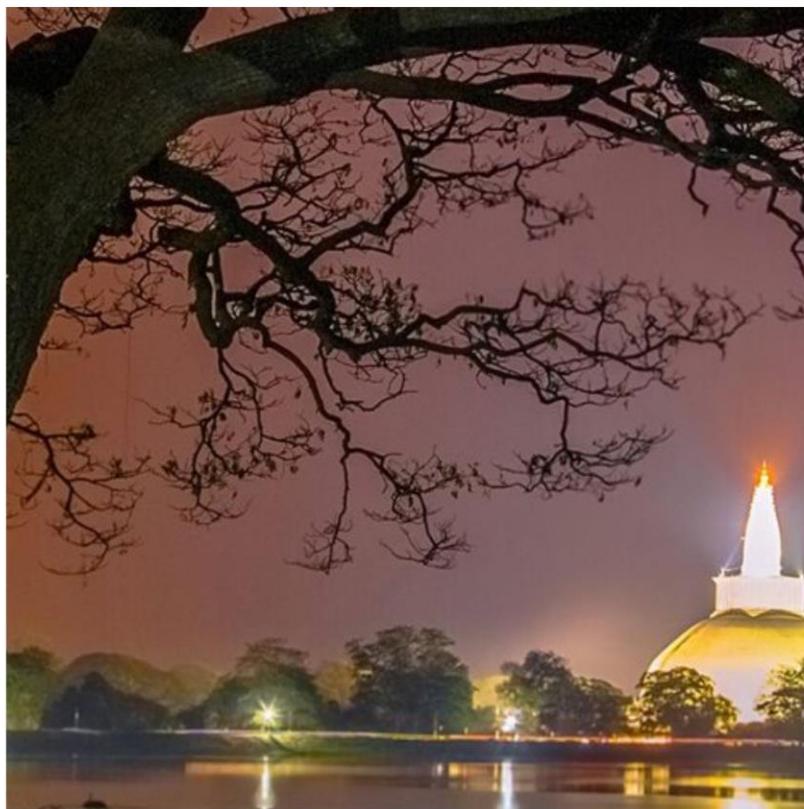
Jaffna

Kandy

[VIEW](#) [VIEW](#) [VIEW](#) [VIEW](#) [VIEW](#)

All right reserved

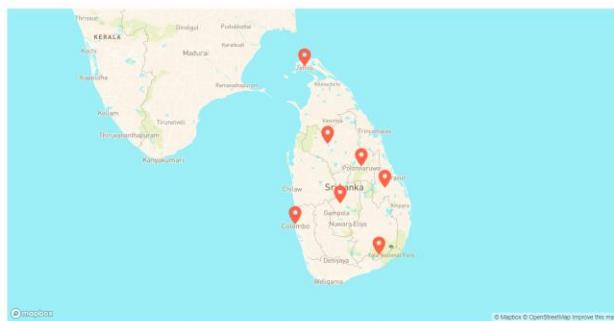
FIGURE 55 DESTINATION HOME PAGE



Anuradhapura

Anuradhapura is the first capital of Sri Lanka located in north central province of Sri Lanka. It is one of the ancient capitals of Sri Lanka which was the center of Theravada Buddhism for many centuries. Due to its ruins of an ancient Sri Lankan civilization UNESCO named it as a UNESCO world heritage site in 1982 under the name of Sacred City of Anuradhapura. Anuradhapura is greatest monastic city of the ancient world that dates back to 5th Century BC remained the majestic seat of the Kingdom of Sri Lanka until the 11th century A.D. Anuradhapura flourished as the Capital of Lanka from 377 BC to the end of the reign 1017 AD and was the Royal Seat for 1400 years under 130 kings as the capital of the country. Anuradhapura was Sri Lanka's first Pleasant City and the first Historical Capital of Sri Lanka. The period between 5th and 11th century BC given the name "Golden Age" of Sri Lanka. This is also known as Christian era. The results of archaeological excavations and numerous palaces, temples, monuments, palaces, pavilions, and tanks, bath houses and war reservoirs, many of them are masterpieces of architecture, art, sculpture and engineering. Anuradhapura offers a host of memorable sightseeing highlights. The city had been reserved for the King, his ministers and for commercial activities and the suburbs had been planned as areas serving the city as well as settlements for ascetics. Site, is replete with renovated monuments, restored edifices, preserved ruins and historical sites where the archeological excavations are still being continued. Anuradhapura was the cradle of glorious Sinhalese Buddhist civilization.

Anuradhapura is a city in Anuradhapura District of North Central Province of Sri Lanka. This sacred city was established around a cutting from the "tree of enlightenment", the Buddha's fig tree, brought there in the 3rd century B.C. by Sanghamitta, the founder of an order of Buddhist nuns. Anuradhapura, a Ceylonese political and religious capital that flourished for 1,300 years, was abandoned after an invasion in 993. Hidden away in dense jungle for many years, the splendid site, with its palaces, monasteries and monuments, is now accessible once again. Anuradhapura is belongs to the North Central Province in to Sri Lanka. Anuradhapura is one of the ancient capitals of Sri Lanka, famous for its well-preserved ruins of ancient Lankan civilization. The city, now a UNESCO World Heritage Site, lies 200 km north of the current capital Colombo in Sri Lanka. In the vicinity of Anuradhapura are the remains of a number of tanks. The ruined city includes classes of buildings such as palaces, monasteries, buildings, and public spaces. The city is one of the most complete remains of the ancient Lankan civilization. Located in the district of Anuradhapura, the area is a mix of private and public land. Most of the civilians are Sinhalese, while Tamils and Sri Lankan Moors live in the districts Polonnaruwa and Anuradhapura. Anuradhapura is the largest district in Sri Lanka. Its area is 7,128 km². North Central Province has numerous potentials for Investors to start their Businesses, especially Agriculture, agro based industries and Livestock sectors. More than 85% of North Central Province's people depend on basic Agriculture and agro base industries. NCP also called "Vew Bendil Rajya" because there are more than 3,000 medium and large scale tanks situated in the province. Sri maha bodhi, Ruwanweli seya, Thuparama degeba, Abayagiri Monastery, Polonnaruwa Raniot wehera, Lanathikale are sacred places in North Central Province.



May this Poson bring peace, good health and hap... Watch later Share

Watch on YouTube

COMMEMORATION OF POSON
CULTURE & HERITAGE

HOLIDAY TRIM SALE
30% OFF HOMEGOODS, STYLING LIGHTS & HOLIDAY DECOR

FIGURE 56 DESTINATION DETAILS PAGE

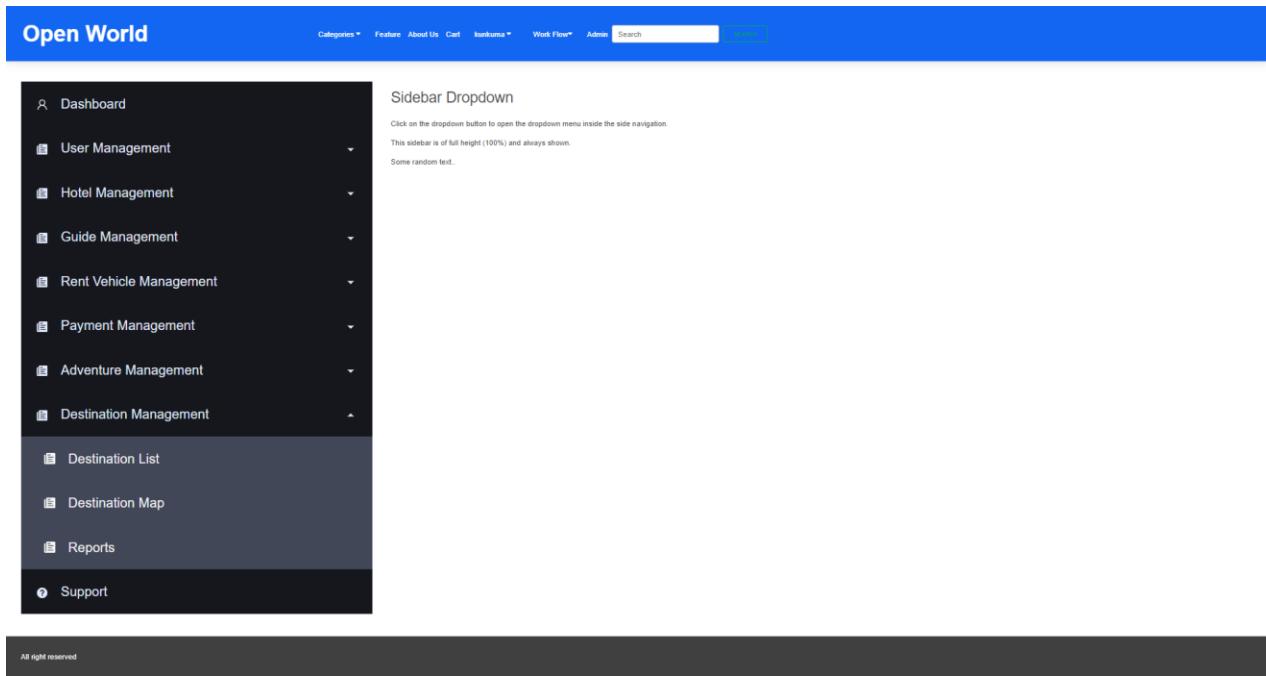


FIGURE 57 DESTINATION LIST, DESTINATION MAP NAVIGATION BAR

FIGURE 58 DESTINATION LIST EDIT/DELETE (ADMIN)

Open World

Categories ▾ Feature About Us Cart kunkuma ▾ Work Flow ▾ Admin Search

Create New Destination

Title

Description

Description1

Destination URL

Video URL

Image No file chosen

All right reserved

FIGURE 59 CREATE DESTINATION



FIGURE 60 EDIT DESTINATION

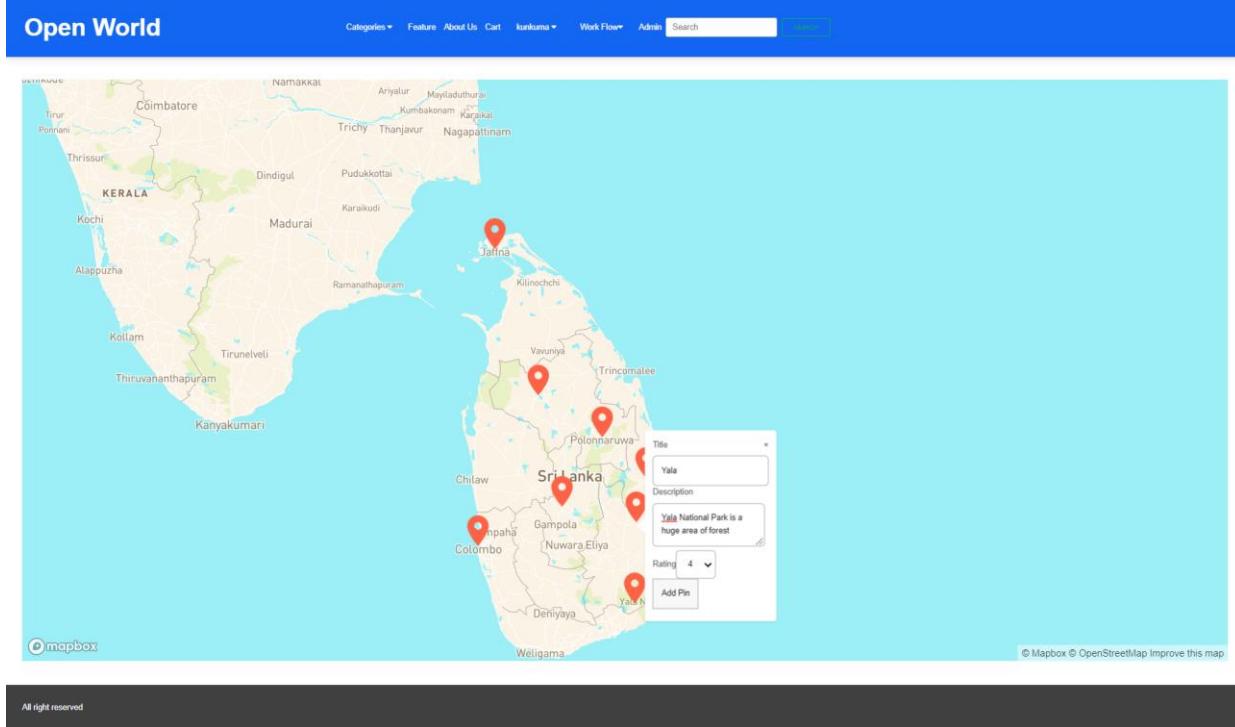


FIGURE 61 INSERT LOCATION MAP (ADMIN)

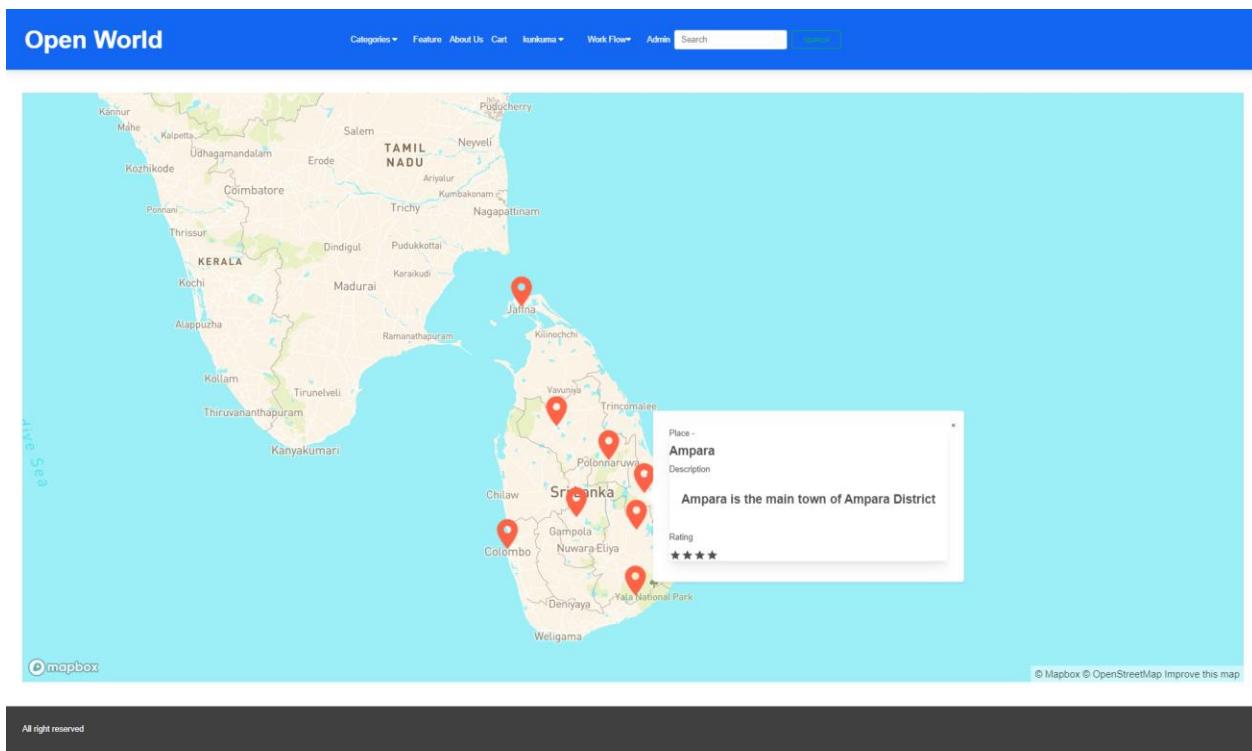


FIGURE 62 VIEW LOCATION (ADMIN)

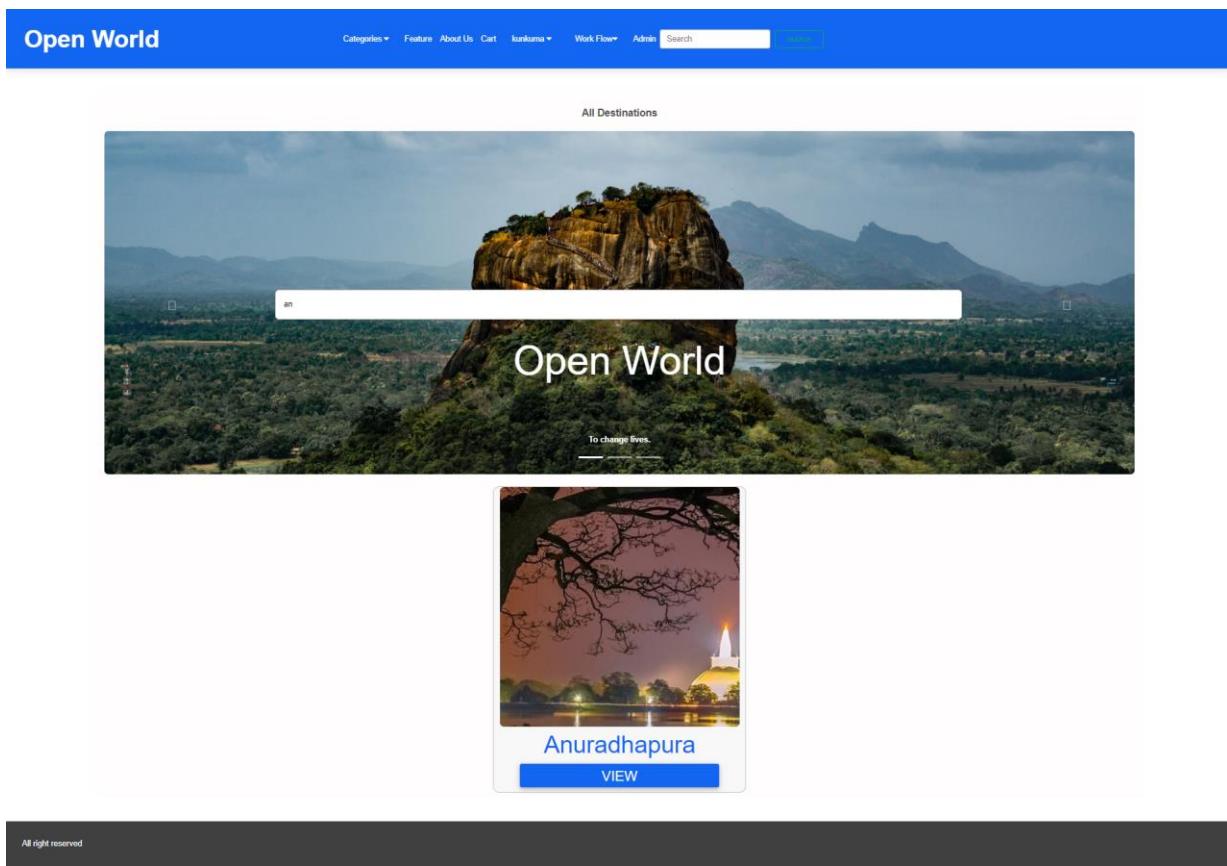


FIGURE 63 SEARCH DESTINATION (USER)

Open World

Categories ▾ Feature About Us Cart kunkuma ▾ Work Flow ▾ Admin Search [Logout](#)

All Destinations

galad

[+ CREATE NEW DESTINATION](#)

ID	Title	Description	Description1	Destination URL	Video URL	Image	Action
1	Galadari Hotel	The finest star class hotel in Sri Lanka with the best of dining, accommodation and entertainment facilities. It is located in Colombo overlooking the foaming ripple of the Indian Ocean and remains to be one of the best hotels in Sri Lanka. Step in to be lost in unearthly cuisines, cosy hideouts, heavenly surrounding and the best of services, which other hotels in Sri Lanka could not offer. Galadari Hotel Sri Lanka, one of the finest hotels in Sri Lanka is not only the best place to relax, eat and indulge, but it is also the best place to work, do business or just breathe the air of luxury at the heart of Colombo. Rooms: Rooms had views: Guests liked the large rooms, though some commented they were dated. Some guests mentioned bathroom cleanliness could be improved. Location: Sightseeing nearby Service & facilities: Guests appreciated the friendly staff. Some guests said management & reception could be improved.	You're eligible for a Genius discount at The Galadari Hotel! To save at this property, all you have to do is sign in. With sweeping views of the Indian Ocean and the Colombo skyline, The Galadari Hotel is the perfect choice for a stay in Colombo. World Trade Center. With 6 dining options, it also has an outdoor pool and a spa. Enjoying direct beach access, Galadari Hotel is less than half a kilometer from local landmarks like Beira Lake and Khan Clock Tower. It is 27.4 km from Bandaranaike Airport. Guests who drive enjoy free parking. The air conditioned guest rooms at Hotel Galadari have large balconies that offer plenty of natural light. Rooms are equipped with a cable TV, a mini-fridge, seating furniture, and a personal safe. The Coffee Shop serves a daily buffet breakfast, while the rooftop California Grill offers fresh seafood and steaks. Other dining options include Chinese cuisine at Sto. Arabian food at Sheherezade Restaurant and pastries at Cafe 64. Drinks are available at the hotel's 2 bars and karaoke lounge. For a refreshing workout, guests can visit the well-equipped fitness center or enjoy a game of tennis. The Galadari also provides a tour desk and car rentals. Couples in particular like the location – they rated it 8.9 for a two-person trip. We speak your language!	https://g.page/GaladariHotel?share	https://www.youtube.com/watch?v=zX789qcPfIg		DETAILS DELETE

All right reserved

FIGURE 64 SEARCH DESTINATION (ADMIN)

2.2.3.6 Ayurvedic treatment management

AYURVEDIC TREATMENTS STORE Treatments Appointments

Treatment

		
Hydra Facial 4500.00	Bali Nese Massage 8000.00	Sole Therapy 8500.00
A HydraFacial is a patented skin treatment available in medical spas and dermatology offices. It's also sometimes called "hydradermabrasion" because it involves microdermabrasion-like exfoliation paired with hydrating serums. Known for its three-step process, the HydraFacial works to deep-clean, exfoliate, and hydrate your skin. This professional procedure may help treat a variety of skin conditions, including acne, dryness, and wrinkles.	Balinese is a form of deep massage and is designed to work almost every muscle in the body. The masseuse will use a variety techniques, including acupressure movements, such as press point and palm pressure, and standard massage techniques like sliding, long exploration, short exploration, and kneading. This massage is not a delicate one, and ...	SOLE THERAPY uses the latest and most effective laser to treat fungal nails and warts. K-Laser is a simple and effective tool that uses the power of red and infrared wavelengths. Deep and even heating of the nail bed stimulates the killing of fungus. For warts, K-Laser removes the wart layer by layer to precisely remove the whole wart without ...
Select	Select	Select

	
Cool Sculpting 10000.00	Swedish Massage 11500.00
involves microdermabrasion-like exfoliation paired with hydrating serums. Known for its three-step process, the HydraFacial works to deep-clean, exfoliate, and hydrate your skin. This professional procedure may help treat a variety of skin conditions, including acne, dryness, and wrinkles.	acupressure movements, such as press point and palm pressure, and standard massage techniques like sliding, long exploration, short exploration, and kneading. This massage is not a delicate one, and ...
Select	Select

FIGURE 65 AYURVEDA TREATMENT STORE

The screenshot displays a web browser window titled "React App" with the URL "localhost:3000/one_treatments/6162b5408a8e463d93294488". The page is titled "Treatment" and features a large image of a person's face receiving a facial treatment. Below the image, the treatment details are listed:

Name : Hydra Facial
Price : 4500.00
Type : Face

A HydraFacial is a patented skin treatment available in medical spas and dermatology offices. It's also sometimes called "hydradermabrasion" because it involves microdermabrasion-like exfoliation paired with hydrating serums. Known for its three-step process, the HydraFacial works to deep-clean, exfoliate, and hydrate your skin. This professional procedure may help treat a variety of skin conditions, including acne, dryness, and wrinkles.

[Appointment](#) [Open Map](#)

The browser interface includes a search bar, a taskbar with various icons, and a system tray showing the date and time (10/13/2021) and weather (29°C Mostly clear).

FIGURE 66 TREATMENT DETAILS PAGE

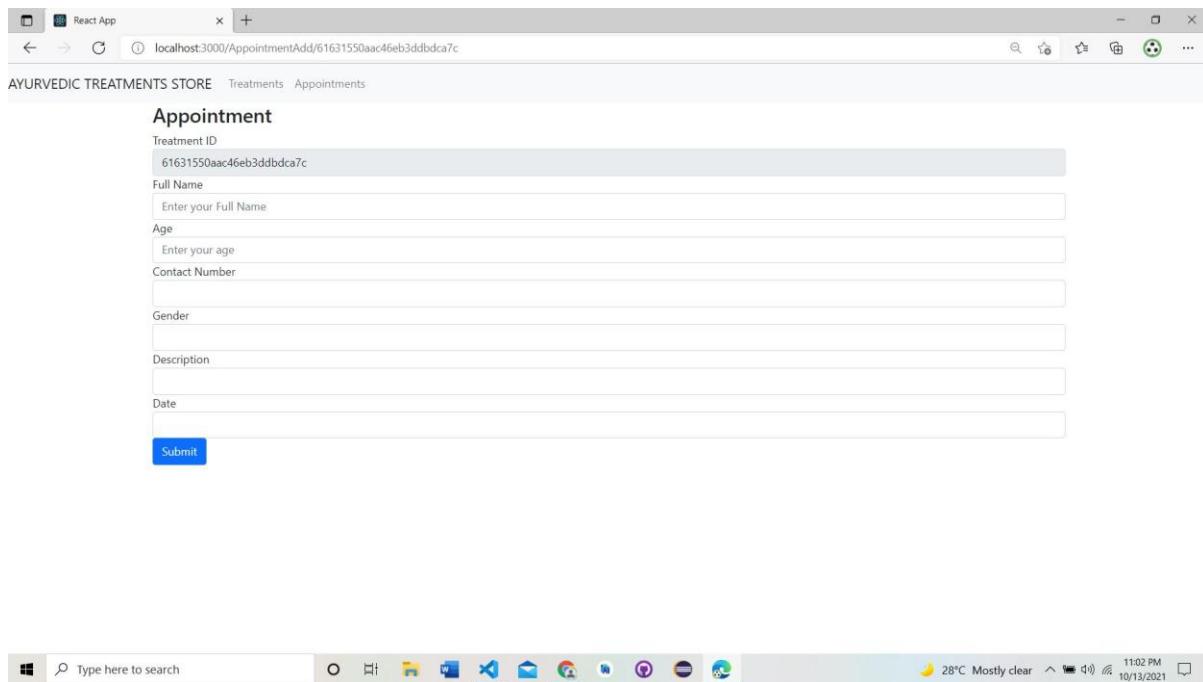


FIGURE 67 AYURVEDIC TREATMENT APPOINTMENT

Treatment Id	Full Name	Age	Contact Number	Gender	Description	Date	
6162b5408a8e463d93294488	Amali Nayani Silva	25	721234523	Female	To get body massage	2021-10-24	edit delete
6162b5408a8e463d93294488	Kalana Ramod Peiris	46	769923123	Male	To get face treatment	2021-10-13	edit delete
61631550aac46eb3ddbdca7c	Devin Amantha Peiris	34	754678345	Male	To get neck treatment	2021-11-02	edit delete
61631655aac46eb3ddbdca7f	Navindi Rashani Perera	45	778961234	Female	To get body massage	2021-10-31	edit delete
61631e22aac46eb3ddbdcaa8	Yashoda Alwis Perera	56	762345654	Female	To get face treatment	2021-10-11	edit delete
61630d4caac46eb3ddbdca68	Erangi Prabodha Alwis	43	771234432	Female	To get face treatment	2021-10-25	edit delete

FIGURE 69 AYURVEDIC TREATMENT APPOINTMENT LIST

Treatment Name	Price	Image	Latitude	Longitude	Description	Type	Edit	Remove
Hydra Facial	4500.00		6.8868577	79.9151418	A HydraFacial is a patented skin treatment available in medical spas and dermatology offices. It's also sometimes called "hydradermabrasion" because it involves microdermabrasion-like exfoliation paired with hydrating serums. Known for its three-step process, the HydraFacial works to deep-clean, exfoliate, and hydrate your skin. This professional procedure may help treat a variety of skin conditions, including acne, dryness, and wrinkles.	Face	Edit	Delete
Bali Nese Massage	8000.00		6.58084	79.962929	Balinese is a form of deep massage and is designed to work almost every muscle in the body. The masseuse will use a variety techniques, including acupressure movements, such as press point and palm pressure, and standard massage techniques like sliding, long exploration, short exploration, and kneading. This massage is not a delicate one, and ...	Body	Edit	Delete
Sole Therapy	8500.00		6.71639	79.913078	SOLE THERAPY uses the latest and most effective laser to treat fungal nails and warts. K-Laser is a simple and effective tool that uses the power of red and infrared wavelengths. Deep and even heating of the nail bed stimulates the killing of fungus. For warts, K-Laser removes the wart layer by layer to precisely remove the whole wart without	Foot	Edit	Delete

FIGURE 68 TREATMENTS PAGE

The screenshot shows a web application interface for managing treatments. At the top, there's a header bar with a 'React App' logo, a search icon, and a refresh button. Below the header, the URL 'localhost:3000/treatment' is visible. The main content area displays two treatment entries:

Treatment Type	Description	Category	Actions
Cool Sculpting	warts. K-Laser is a simple and effective tool that uses the power of red and infrared wavelengths. Deep and even heating of the nail bed stimulates the killing of fungus. For warts, K-Laser removes the wart layer by layer to precisely remove the whole wart without ...	Neck	<button>Edit</button> <button>Delete</button>
Swedish Massage	In Swedish massage, the person to be massaged lies on a massage table and is draped with a towel or sheet. It is a full-body massage treatment, except in areas that are contraindicated or where the client requests not to be touched. Aromatic or unscented oil or lotion is used to facilitate the massage movements.	Massage	<button>Edit</button> <button>Delete</button>

Below the table, there's a form for adding a new treatment:

Treatment Name	<input type="text"/>
Price	<input type="text"/>
Image	<input type="file"/> Choose File No file chosen
Latitude	<input type="text"/>
Longitude	<input type="text"/>
Description	<input type="text"/>
Treatment Type	<input type="text"/> ~select~

At the bottom of the page, there's a navigation bar with icons for file operations (New, Open, Save, Print, Find, Copy, Paste, Cut), a search bar, and a toolbar with various application icons. On the right side of the navigation bar, there's a weather widget showing '28°C Mostly clear' and a system status bar indicating '11:00 PM' and the date '10/13/2021'.

FIGURE 70 TREATMENT PAGE 2

2.2.3.7 Advertising Management

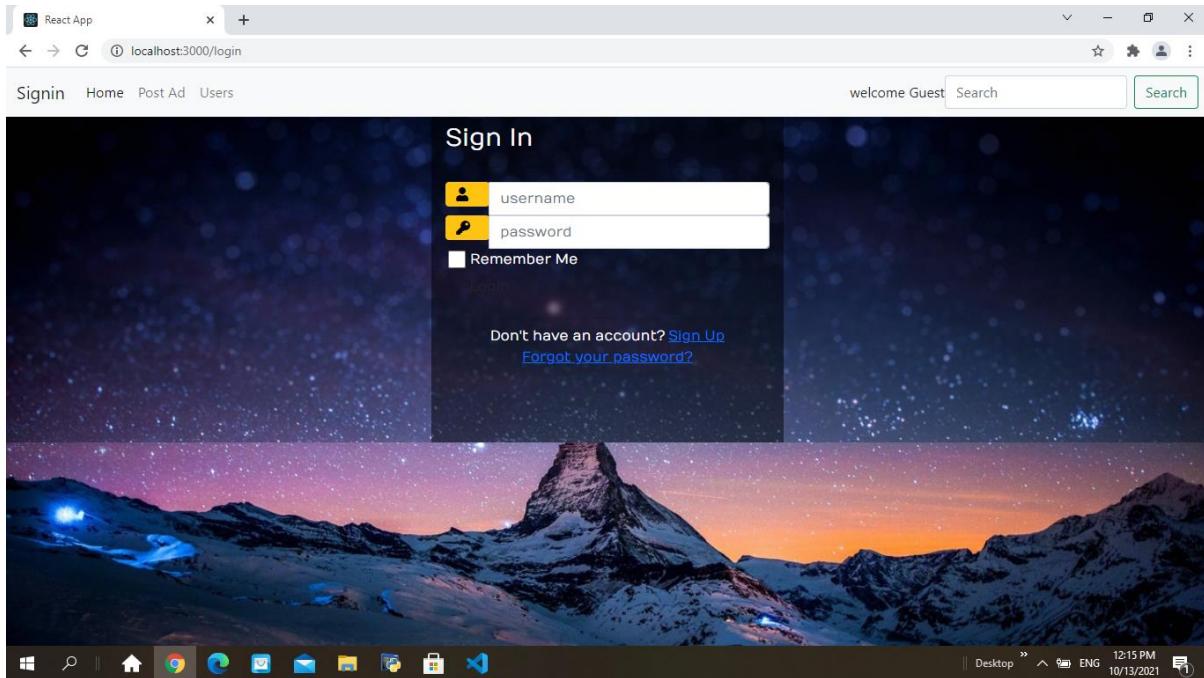


FIGURE 72 ADVERTISER LOGING FORM

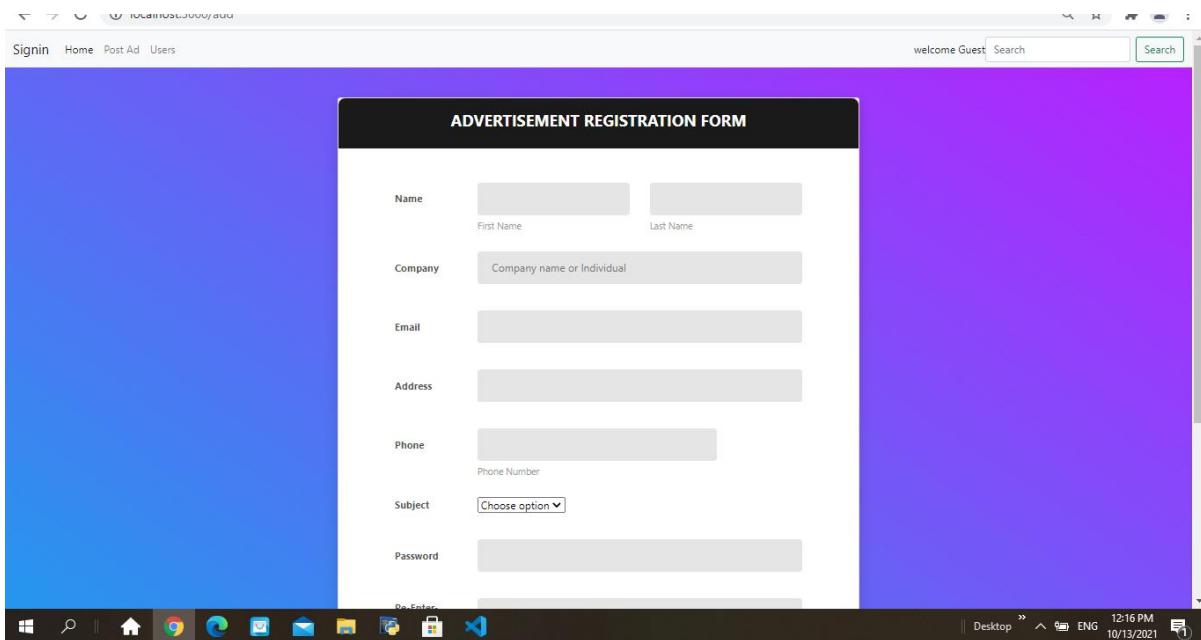


FIGURE 71 ADVERTISER REGISTRATION FORM

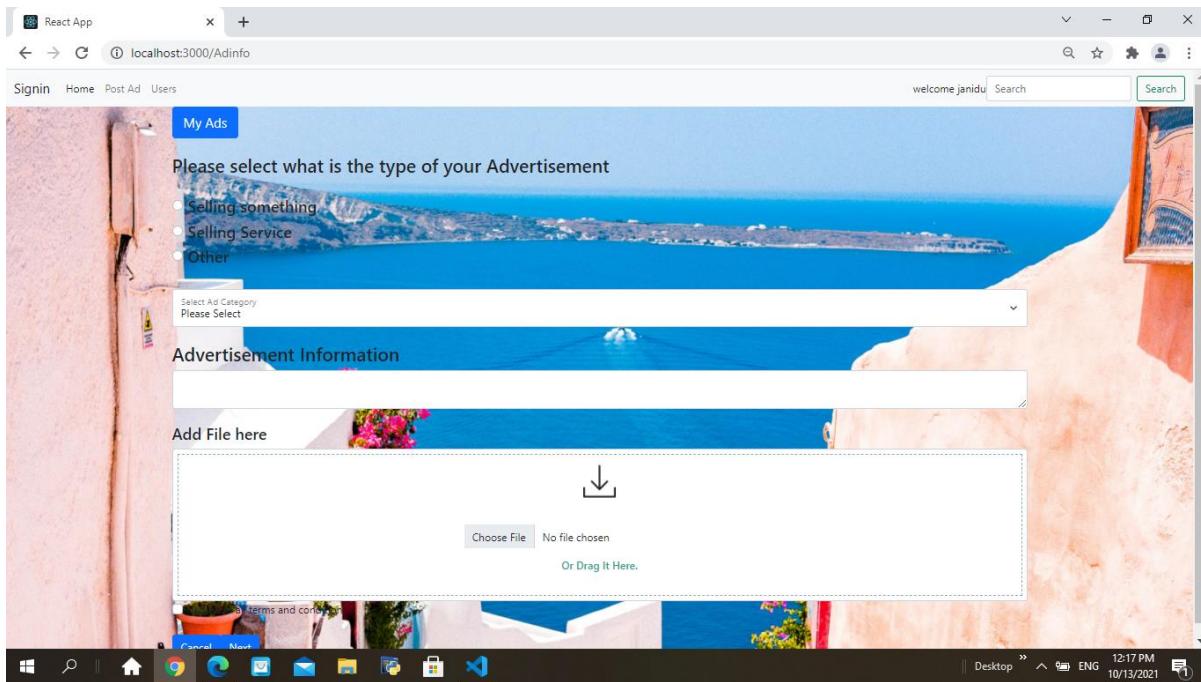


FIGURE 73 INPUT ADS

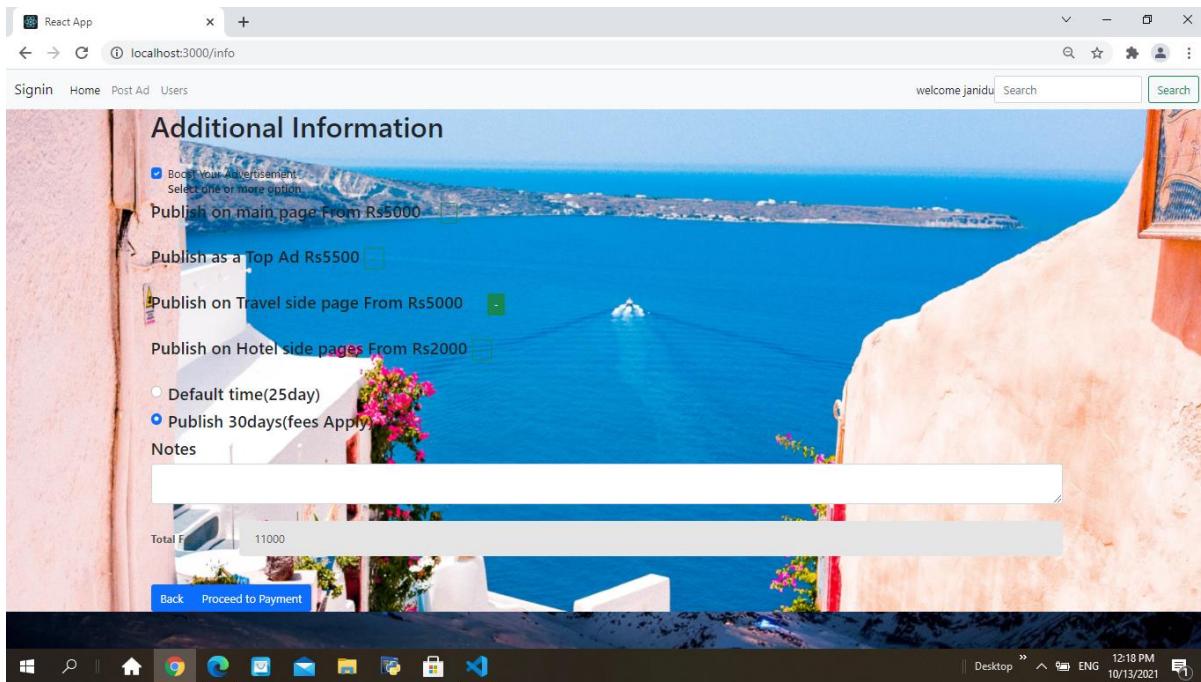


FIGURE 74 INPUT ADS 2

React App × +

localhost:3000/app

Signin Home Post Ad Users welcome janidu Search Search

Card Details

Total Value	11000
Name On Card	Sandun Perera
Bank Name	sampath Bank
Card Number	Enter credit card number
CVV	xxxx
Ex. date	mm/dd/yyyy <input type="button" value=""/>
<input style="background-color: #28a745; color: white; padding: 5px; margin-right: 10px;" type="button" value="Check out"/> <input style="background-color: #dc3545; color: white; padding: 5px;" type="button" value="Clear"/>	

FIGURE 75 ADVERTISEMENT PAYMENT PAGE

React App × +

localhost:3000/allAd

Signin Home Post Ad Users welcome janidu Search Search

All Advertisement

#	Ad Type	Category	Information	File	Action
1	sell-1	1	nnnnnn		<input checked="" type="checkbox"/> edit <input type="button" value="Delete"/>
2	sell-1	1	ssssss		<input checked="" type="checkbox"/> edit <input type="button" value="Delete"/>

FIGURE 76 ALL ADVERTISEMENT PAGE

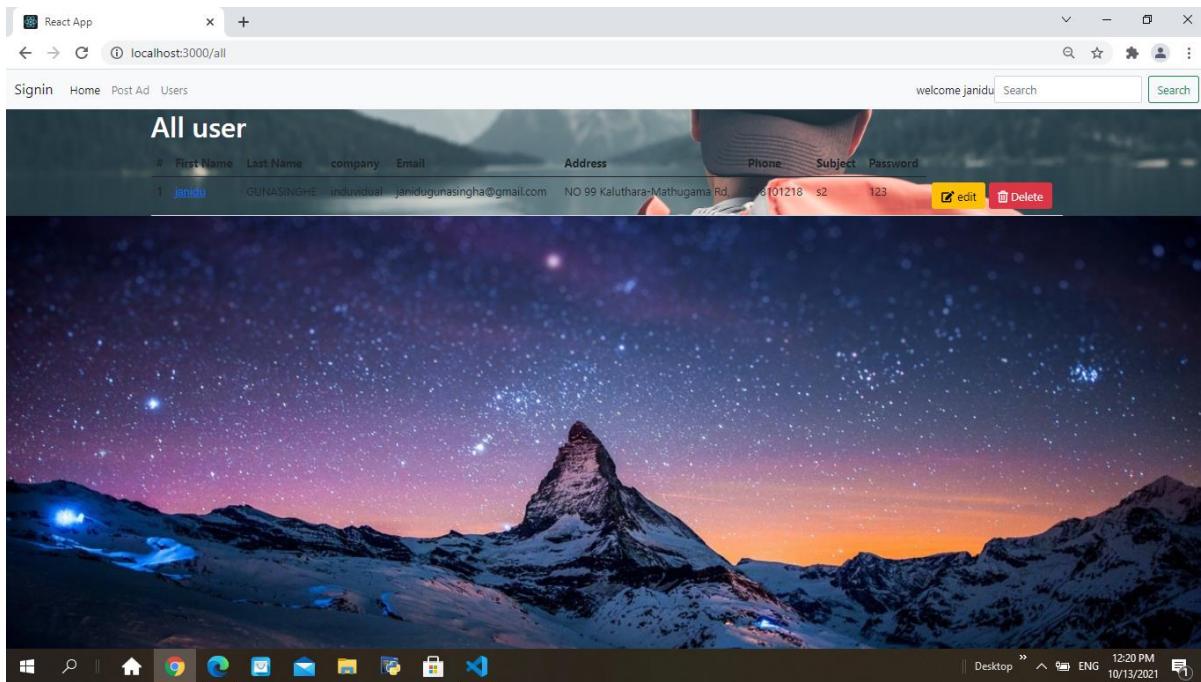


FIGURE 77 ALL USERS PAGE

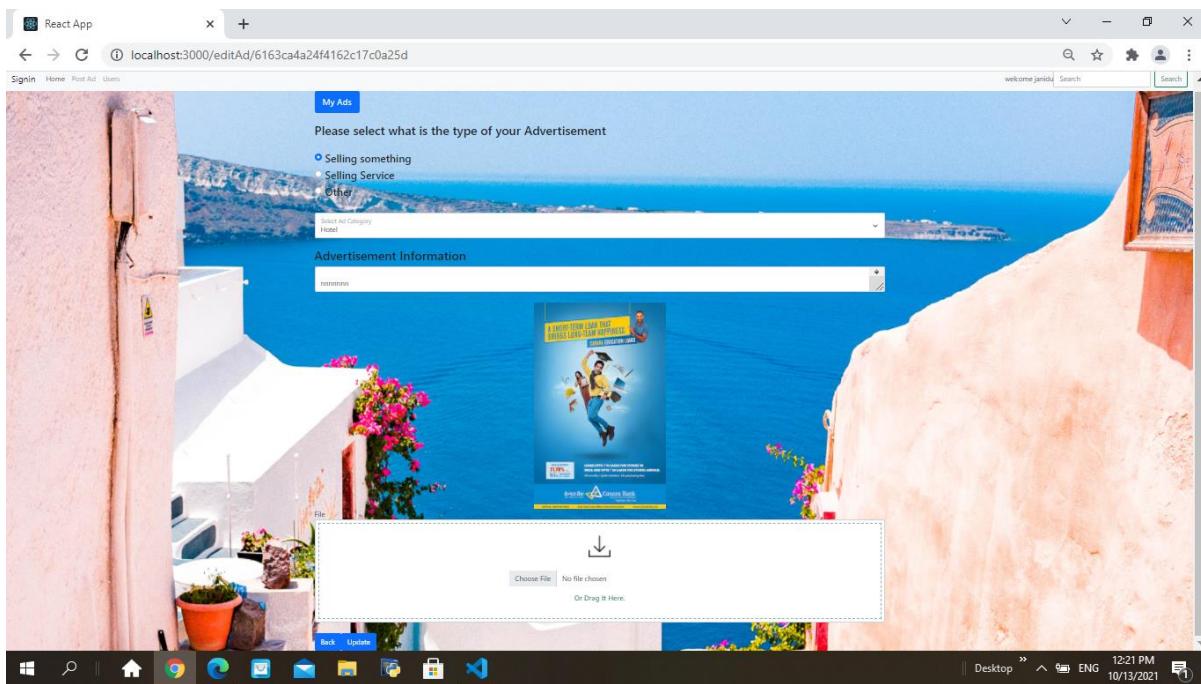


FIGURE 78 ADVERTISEMENT UPDATE PAGE

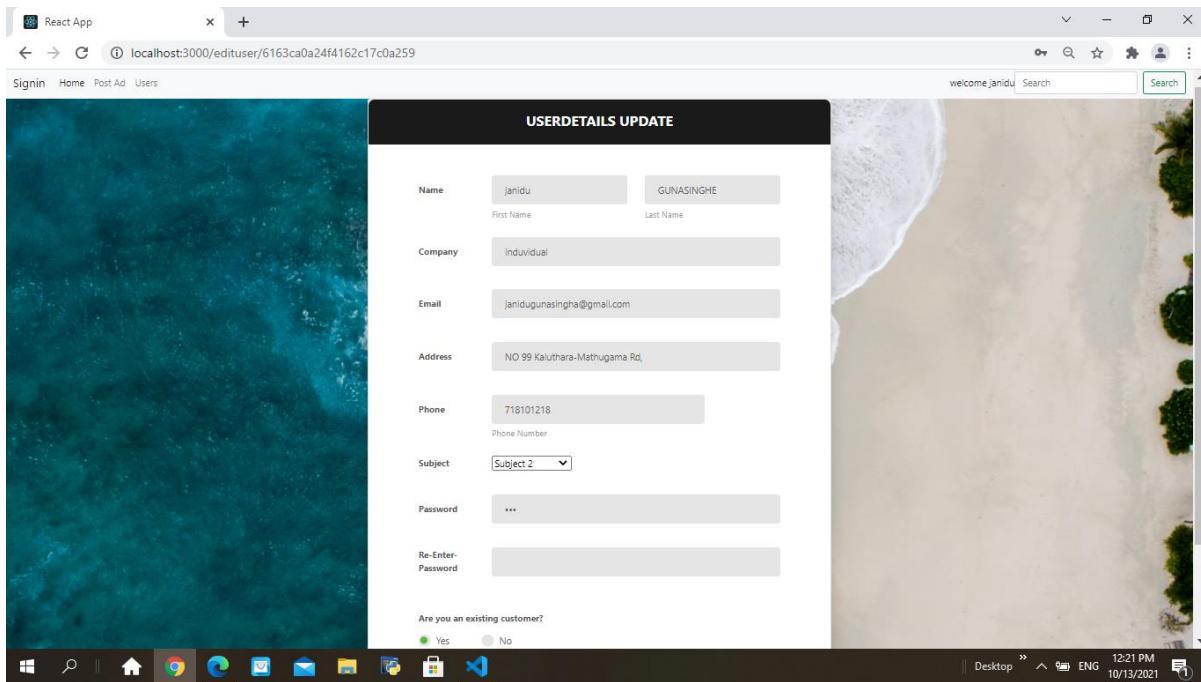


FIGURE 79 USER DETAILS UPDATE PAGE

2.2.3.8 Outdoor & Adventure Experiences Management

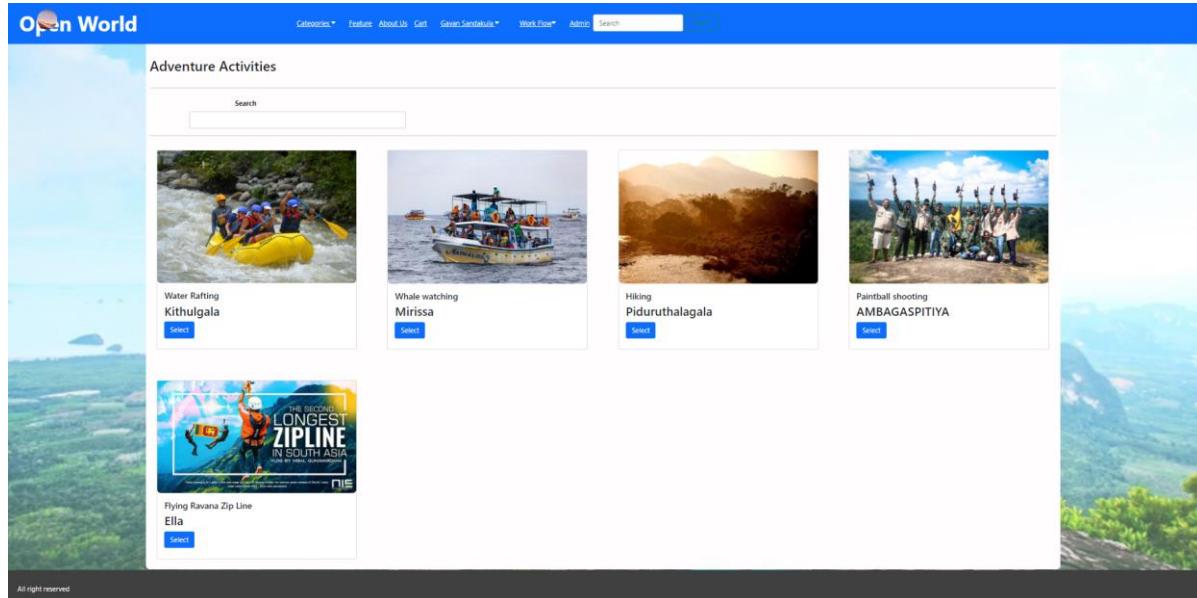


FIGURE 80 ADVENTURE ACTIVITIES LIST PAGE

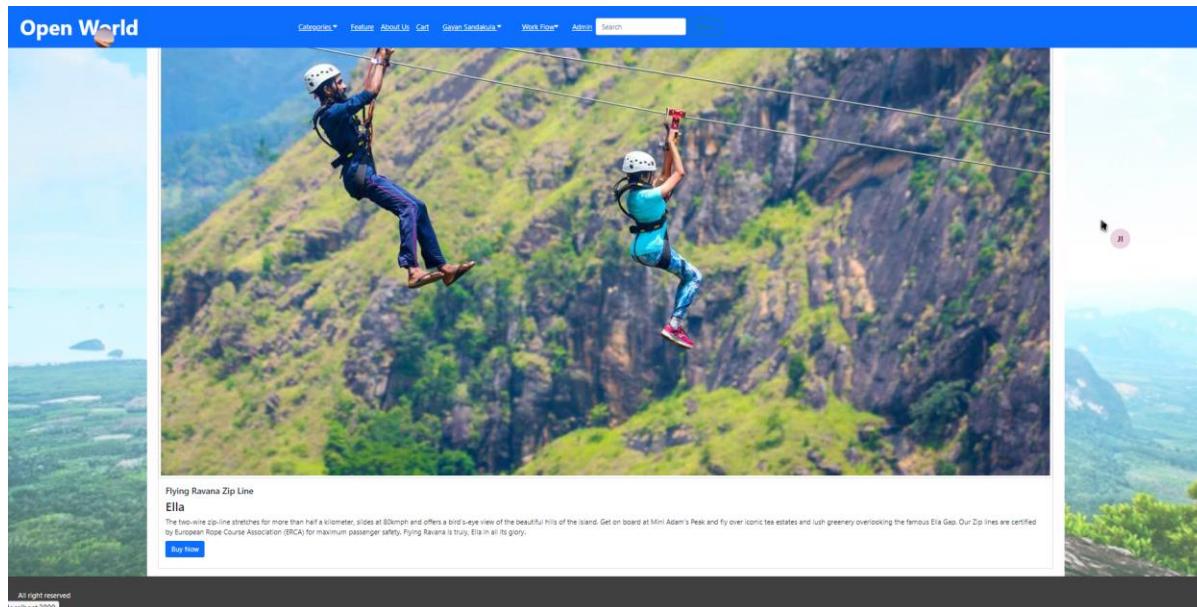


FIGURE 81 ADVENTURE ACTIVITIES DETAILS PAGE

Adventure Activities Booking

Customer Name: Gayan Sandakula

Contact Number: 0772502170

Email: gayanadesilva62@gmail.com

Number of Visitors: 4

Booking Date: 10/14/2021

Submit Clear

FIGURE 82 ADVENTURE ACTIVITIES BOOKING PAGE

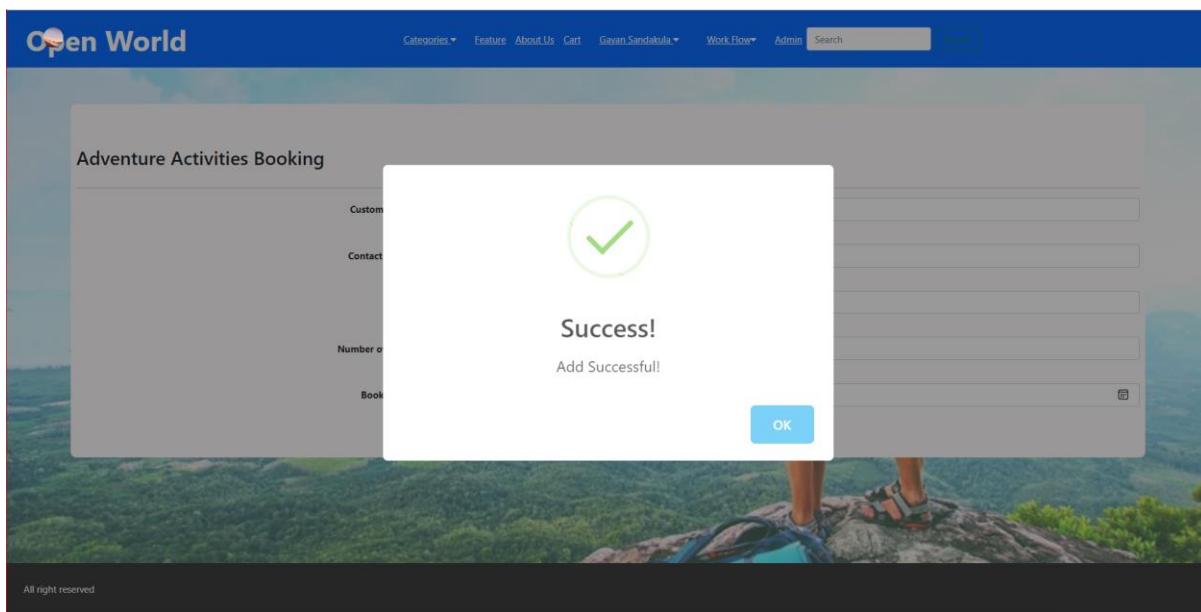


FIGURE 83 SUCCESSFUL MESSAGE IN ADVENTURE ACTIVITIES

Open World

Categories Feature About Us Cart Gayan Sandakula Work Flow Admin Search [Logout](#)

Adventure Activities

Adventure Name	City	Image	Image	Province	Description	Activity Type	Edit	Remove
Water Rafting	Kithulgala			western	Boasting about adventure sporting, Kitulgala is a town located in West of the road from Kandy to Nuwara Eliya. It's a town located in amidst forest hills. It has been once a filming place for the David Lean's 1957 Oscar-winning epic "Bridge on the River Kwai" on the banks of Kelani River. Most visitors for the adventure sporting are from Colombo. The Kitulgala's main attraction is White water rafting where you can ride the tides of Kelani River. Other than that it's popular for sports like confidence jump, Stream Sliding, Waterfall abseiling, Jungle trekking, Bird watching and cave exploration and last but not least river trips and expeditions.	Outdoor Activities	Edit	Delete
Whale watching	Mirissa			Sabaragamuwa	Blue whales are the biggest animals that have ever lived on our planet. And if ever you needed an extra reason to go to Sri Lanka, then this is one. Not as famous as, say, Antarctica or the Azores for the big beautiful blues, Sri Lanka is rightfully claiming its own cetacean crown. And what you can't do in other parts of the whale watching world is see our oceans' greatest creatures one day and then elephants or leopard the next.	Outdoor Activities	Edit	Delete
Hiking	Pidurutalagala			Uva	Pidurutalagala, or Mount Pedro in English, is an ultra prominent peak, and the tallest mountain in Sri Lanka, at 2,524 m. Mount Pedro is located close to the city of Nuwara Eliya, and is easily visible from most areas of the Central Province. Driving directions to Pidurutalagala Nuwara Eliya Sri Lanka	Outdoor Activities	Edit	Delete
Paintball shooting	AMBAGASRITIYA			sothern	Our paintball field is a unique awesome one and our field which meets woods ball experience lot. Our main goal is to make sure you all have a great time playing paint ball. The Field is able to accommodate up to 100 players and maximum of 10-12 players in one team. The paintball field facility includes with state of the art paintball equipments,friendly and qualified marshals,excellent battle fields and great service at on flexible prices. Whether you're a paint ball expert or novice, This will be the best place to enjoy paint baling. We also provides facilities like: Target practice Barbeque facility Camping and etc. And we are open 8:00am. to 4:30pm (Weekdays and Weekend), however flexible timing sessions can be accommodated upon prior request.	Outdoor Activities	Edit	Delete
Flying Ravana Zip Line	Ella			Central	The two-wire zip-line stretches for more than half a kilometer, slides at 80kmph and offers a bird's-eye view of the beautiful hills of the island. Get on board at Mini Adam's Peak and fly over iconic tea estates and lush greenery overlooking the famous Ella Gap. Our Zip lines are certified by European Rope Course Association (ERCA) for maximum passenger safety. Flying Ravana is truly, Ella in all its glory.	Outdoor Activities	Edit	Delete

Adventure Name

All right reserved

FIGURE 84 ADVENTURE ACTIVITIES ADMIN VIEW

Open World

Categories Feature About Us Cart Gayan Sandakula Work Flow Admin Search [Logout](#)

Adventure Activities Booking

Customer Name	Contact Number	Email	Number of Visitors	Booking Date	Edit	Remove
Gayan Sandakula	0772502170	gayandesilva62@gmail.com	4	2021-10-19	Edit	Delete
Gayan Sandakula	0772502170	gayandesilva62@gmail.com	3	2021-10-15	Edit	Delete
Gayan Sandakula	0772502170	gayandesilva62@gmail.com	4	2021-10-14	Edit	Delete

Customer Name

Contact Number

Email

Number of Visitors

Booking Date mm/dd/yyyy

All right reserved
localhost:3001

FIGURE 85 ADVENTURE ACTIVITIES BOOKING ADMIN

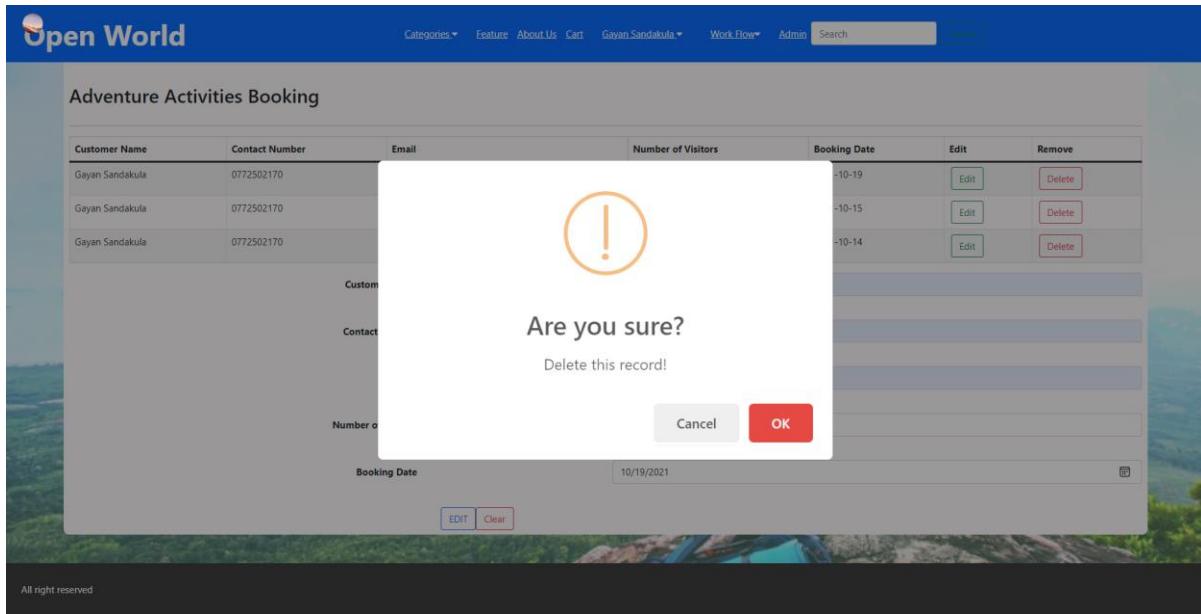


FIGURE 86 ADVENTURE ACTIVITIES DELETE MESSAGE

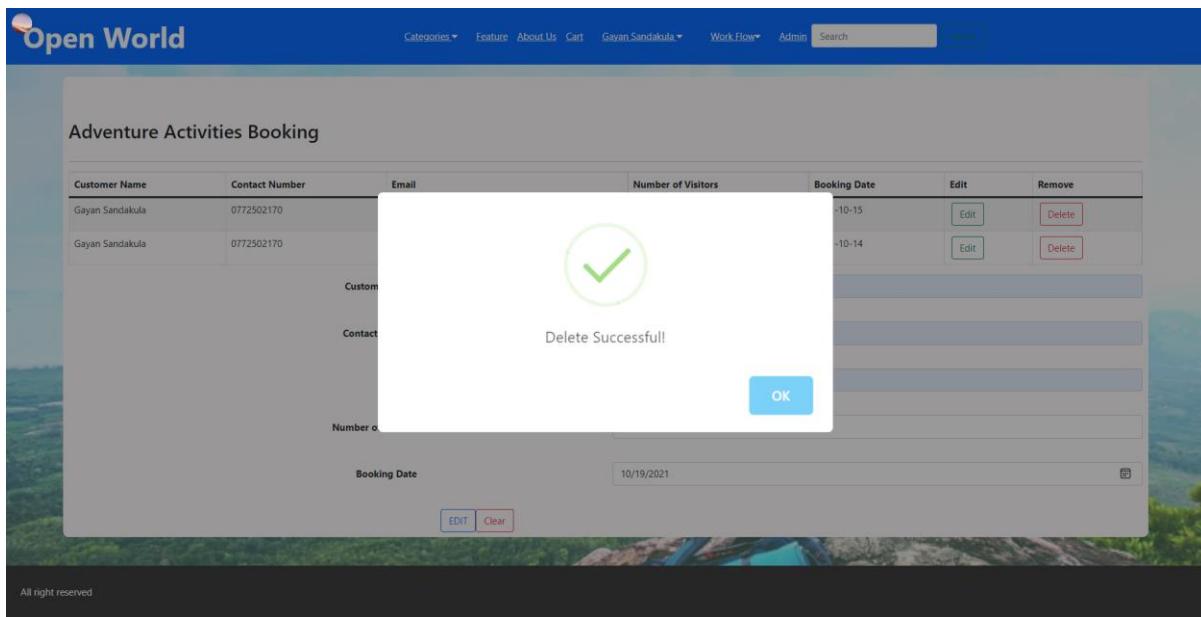


FIGURE 87 ADVENTURE ACTIVITIES DELETE SUCCESSFUL MESSAGE

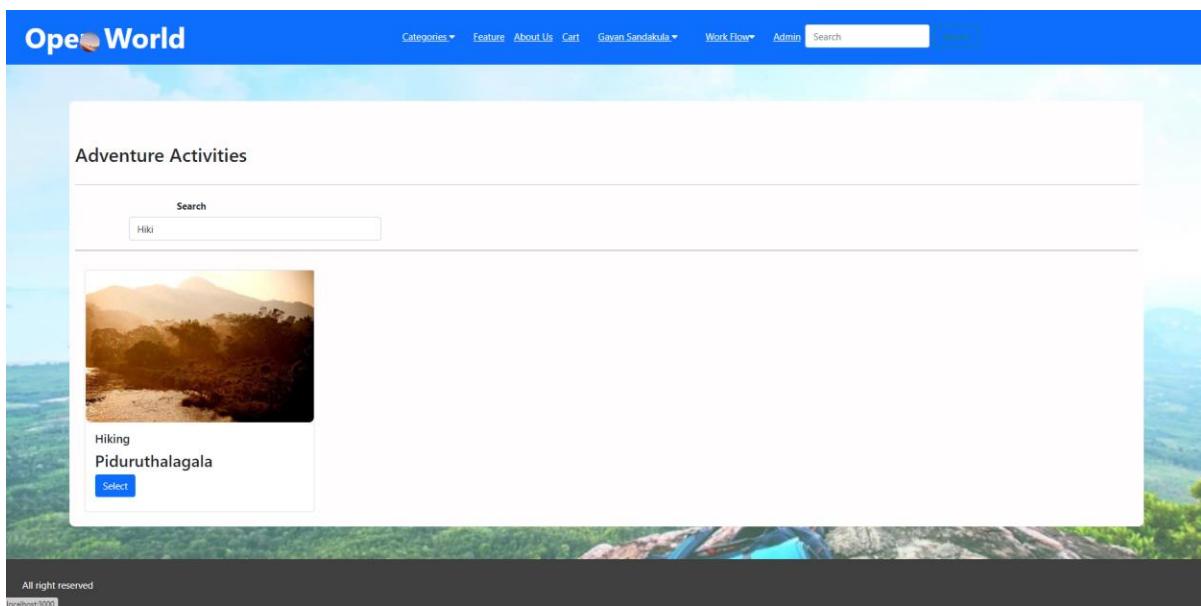


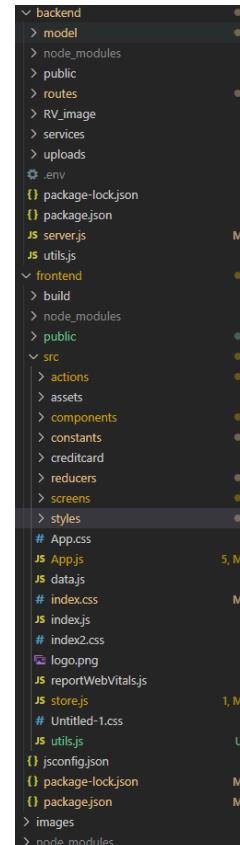
FIGURE 88 ADVENTURE ACTIVITIES SEARCHING

2.3 Implementation

2.3.1 Tools used for the Development

Software	Usage
Visual Studio Code	For coding environment
MongoDB	For database management
Google chrome	For the display web page
Adobe Photoshop CC/ Adobe Illustrator	For the image and logo creation
React (JavaScript library)	For Develop the Frontend
Node.js Platform	For Develop the Backend (server environment)

The system has developed as MERN Stack Architecture following are the screenshots of the related coding.



**FIGURE 89 Vs CODE
FOLDER STRUCTURE**

✓ This is Server Side authorization to is User Valid user

```
const jwt = require("jsonwebtoken");

const generateToken = (user)=>{
  return jwt.sign({
    _id:user._id,
    name:user.name,
    email: user.email,
    isAdmin:user.isAdmin,
    isServiceProvider:user.isServiceProvider,
  },process.env.JWT_SECRET || 'somethingsecret',
  {
    expiresIn: '30d',
  });
}

const isAuthenticated = (req, res, next) => {
  const authorization = req.headers.authorization;
  if (authorization) {
    const token = authorization.slice(7, authorization.length); // Bearer XXXXX
    jwt.verify(
      token,
      process.env.JWT_SECRET || 'somethingsecret',
      (err, decode) => {
        if (err) {
          res.status(401).send({ message: 'Invalid Token' });
        } else {
          req.user = decode;
          next();
        }
      }
    );
  } else {
    res.status(401).send({ message: 'No Token' });
  }
};
```

FIGURE 91 CODE OF SERVER SIDE VALIDATION OF AUTHORIZATIONS 1

```
const isAdmin = (req, res, next) => {
  if (req.user && req.user.isAdmin) {
    next();
  } else {
    res.status(401).send({ message: 'Invalid Admin Token' });
  }
};

const isHotelServiceProvider = (req, res, next) => {
  if (req.user && req.user.isServiceProvider) {
    next();
  } else {
    res.status(401).send({ message: 'Invalid Hotel Service Provider Token' });
  }
};

const isGuide = (req, res, next) => {
  if (req.user && req.user.isGuide) {
    next();
  } else {
    res.status(401).send({ message: 'Invalid Guide Token' });
  }
};

module.exports = generateToken, isAuthenticated, isAdmin, isGuide, isHotelServiceProvider;
```

FIGURE 90 CODE OF SERVER SIDE VALIDATION OF AUTHORIZATIONS 2

FIGURE 92 BOOKING GUIDE

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it lists files under "OPEN-WORLD-MERN-STACK" such as AdminSlider.js, GuideRegister.js, Hotel.js, HotelDetail.js, HotelServiceProvider.js, LoadingBox.js, MessageBox.js, MyGuideProfile.js, MyGuideprofileCo..., OneGuide.js, PrivateRoute.js, Rating.js, Rooms.js, vbookings.js, Vehicle.js, VehicleHomeScreen.js, VehicleScreen.js, NavigationBar, adminbooking.js, AdminGuideEdit.js (the active file), AdminGuideManage.js, AdminRouter.js, AdminSidebar.js, OUTLINE, and TIMELINE.
- Code Editor:** The main area displays the content of AdminGuideEdit.js. The code handles updating guide details, loading guides from a local API, and rendering an edit form with a "Edit Guide Details" heading and a "Submit" button. It also includes a row input field.
- Terminal:** At the bottom, the terminal shows the command "Hash:1996".
- Status Bar:** The status bar at the bottom right indicates "Ln 92, Col 2" and "Spaces: 2" with "CRLF" encoding, and "JavaScript" as the language.
- Bottom Icons:** Standard VS Code icons for file operations like save, close, and refresh, along with "Live Share" and "Sync" buttons.

FIGURE 93 EDIT GUIDE

```
File Edit Selection View Go Run Terminal Help guideRouter.js - Open-World-MERN-Stack - Visual Studio Code

EXPLORER ... JS GuideDisplayList.js M JS OneGuide.js JS GuideRating.js JS guideRouter.js X

OPEN-WORD-MERN-STACK backend > routes > JS guideRouter.js > ...

109
110
111
112 router.get('/',async(req,res)>{
113   try{
114     const data = await Guide.find()
115     const dataMapping = await data?.map(async da=>{
116
117       const reviews = await Reviewdata.find({guideId: da._id})
118
119       return {
120         "languages":da.languages,
121         "id":da.id,
122         "firstName":da.firstName,
123         "lastName":da.lastName,
124         "age":da.age,
125         "gender":da.gender,
126         "phone":da.phone,
127         "licence":da.licence,
128         "education":da.education,
129         "guiding":da.guideImg,
130         reviewsAvg:reviews.length === 0 ? 0 : reviews.map(re => re.rating).reduce((a,b)=>(a+b))/reviews.length
131       }
132
133     })
134
135     const promiseMappedData = await Promise.all(dataMapping)
136     return res.json({
137       success:true,
138       |   existingGuide: promiseMappedData
139     })
140
141   }
142
143   catch(error){
144     console.log(error)
145   }
146 }

main.js Hash:1996 Live Share Ln 1, Col 1 Spaces: 4 UTF-8 CRLF (JavaScript) 10/13/2021
```

FIGURE 95 RATING GUIDE

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "OPEN-WORLD-MERN-STACK". The "AdminGuideManagement.js" file is currently selected.
- Code Editor:** Displays the content of "AdminGuideManagement.js". The code includes a React component with a "Print" button and a table for listing bookings.
- Bottom Status Bar:** Shows file paths (main*, Hash1996), live share status, and terminal output.
- Bottom Icons:** Includes icons for file operations like Open, Save, and Undo.
- Bottom Right:** Shows the current file path (AdminGuideManagement.js), file statistics (Ln 1, Col 1, Spaces: 2, CRLF), and a date/time stamp (10/13/2021 10:00 PM).

```
guideAction.js JS MyGuideprofileConformation.js JS MyGuideProfile.js JS adminbooking.js JS GuideBookingRoute.js JS AdminGuideManagement.js
```

```
85
86
87 <div class="form-outline mb-2 ">
88     <ReactToPrint
89         trigger={() => (
90             <button
91                 type="button"
92                 class="btn btn-danger"
93                 style={{ marginInlineStart: "90%" }}
94             >
95                 <i class="fas fa-print mr-2"></i>Print this out!
96             </button>
97         )}
98         content={() => this.componentRef}
99     />
100 </div>
101
102 <div ref={(Component) => (this.componentRef = Component)}>
103     <hr />
104     <div
105         style={{ marginInlineEnd: "10px", marginInlineStart: "10px" }}
106     >
107         <table
108             class="table"
109             style={{ backgroundColor: "hsla(90, 0%, 100%, 0.9)" }}
110         >
111             <thead class="thead-dark">
112                 <tr>
113                     <th scope="col">#</th>
114                     <th scope="col">Guide Name</th>
115                     <th scope="col">Languages</th>
116                     <th scope="col">Contact Number</th>
```

FIGURE 94 REPORT GUIDE

```
143     |   </div>
144     |   </div>
145     |   <div class="mb-3">
146     |     <label class="col-form-label">End Date</label>
147     |     <input
148     |       type='date'
149     |       value={enddate}
150     |       onChange={(e) => {
151     |         setEndDate(e.target.value);
152     |       }}
153     |     />
154     |   </div>
155     |   <div class="mb-3">
156     |     <label for="message-text" class="col-form-label">Message:</label>
157     |     <textarea class="form-control" id="message-text" value={message}>
158     |       name="message"
159     |       onChange={(e)=> setmessage(e.target.value)}</textarea>
160     |     </div>
161     |     <div class="modal-footer">
162     |       <button type="button" class="btn btn-danger" data-bs-dismiss="modal">Cancel</button>
163     |       <button type="submit" class="btn btn-success" onClick={onClick}>Send</button>
164     |     </div>
165     |   </div>
166     | </div>
167     | </div>
168   </div>
169 </div>
170 </div>
171 </div>
172 <br><br>
173 <br>
```

FIGURE 97 REQUEST SEND AND CANCEL GUIDE

```
4   GUIDE_SIGNIN_FAIL,
5   GUIDE_SIGNIN_REQUEST,
6   GUIDE_SIGNIN_SUCCESS,
7   GUIDE_SIGNOUT,
8 } from '../constants/guideConstants';
9
10 export const guidesignin = (gemail, gpassword) => async (dispatch) => {
11   dispatch({ type: GUIDE_SIGNIN_REQUEST, payload: { gemail, gpassword } });
12   try {
13     const { gdata } = await Axios.get('http://localhost:8070/guideR/guidesignin', { gemail, gpassword });
14     dispatch({ type: GUIDE_SIGNIN_SUCCESS, payload: gdata });
15     localStorage.setItem('guideInfo', JSON.stringify(gdata));
16   } catch (error) {
17     dispatch({
18       type: GUIDE_SIGNIN_FAIL,
19       payload:
20         error.response && error.response.data.message
21         ? error.response.data.message
22         : error.message,
23     });
24   }
25 };
26
27 export const guidesignout = () => (dispatch) => {
28   localStorage.removeItem('guideInfo');
29   //localStorage.removeItem('cartItems');
30
31   dispatch({ type: GUIDE_SIGNOUT });
32
33 };
34
35 };
```

FIGURE 96 REQUEST GUIDE

```
File Edit Selection View Go Run Terminal Help
GuideDisplayList.js - Open-World-MERN-Stack - Visual Studio Code
OPEN-WORLD-MERN-STACK
frontend > src > components > GuideDisplayList.js > render
  20 |   this.retrieveGuide();
  21 |
  22 |
  23   retrieveGuide(){
  24     axios.get("http://localhost:8070/guideR").then(res =>{
  25       if(res.data.success){
  26         this.setState({
  27           guide:res.data.existingGuide
  28         });
  29         console.log(this.state.guide);
  30       }
  31     });
  32   }
  33 |
  34   onDelete=(id)=>{
  35     axios.delete('http://localhost:8070/guideR/delete/${id}`).then((res)=>{
  36       alert("Guide Details Delete SuccessFully");
  37       this.retrievePosts();
  38     })
  39   }
  40 |
  41   filterData(guide,searchkey){
  42     const result = guide.filter((guide) =>
  43       guide.firstName.toLowerCase().includes(searchkey) ||
  44       guide.lastName.toLowerCase().includes(searchkey) ||
  45       guide.age.toLowerCase().includes(searchkey)
  46     )
  47     this.setState({guide:result})
  48   }
  49 |
  50   handleSearchArea(e)=>{
  51     const searchkey = e.currentTarget.value;
Ln 119, Col 42  Spaces: 2  UTF-8  CRLF  {} JavaScript  Live Share
main* 0 0 0 Hash1996 945 PM 10/13/2021
```

FIGURE 98 SEARCH GUIDE

```
File Edit Selection View Go Run Terminal Help
MyGuideProfile.js - Open-World-MERN-Stack - Visual Studio Code
ideDisplayList.js M  OneGuide.js  GuideRating.js  guideRouter.js M  GuideModel.js  guideAction.js  MyGuideprofileConformation.js  MyGuideProfile.js
frontend > src > components > components > MyGuideProfile.js > ...
  59   <dd className="col-sm-6">{gender}</dd>
  60
  61   <dt className="col-sm-5">Age</dt>
  62   <dd className="col-sm-6">{age}</dd>
  63
  64   <dt className="col-sm-5">Education Qualification</dt>
  65   <dd className="col-sm-6">{education}</dd>
  66
  67   <dt className="col-sm-5">Licence</dt>
  68   <dd className="col-sm-6">{licence}</dd>
  69
  70   <dt className="col-sm-5">Phone No</dt>
  71   <dd className="col-sm-6">{phone}</dd>
  72
  73   <dt className="col-sm-5">Email Address</dt>
  74   <dd className="col-sm-6">{email}</dd>
  75
  76   <dt className="col-sm-5">Languages</dt>
  77   <dd className="col-sm-6">{languages}</dd>
  78
  79
  80
  81   </dl> <center>
  82   <button type="submit" class="btn btn-primary" ><a href={`/guide/edit/${id}`} style={{textDecoration:'none',color:'white'}} >Update</a></button>
  83   &nbsp;&nbsp;&nbsp;
  84   <button type="submit" class="btn btn-primary" onClick={()=>thisonDelete(id)}>Delete</button>&nbsp;&nbsp;&nbsp;
  85   <button type="submit" class="btn btn-primary" onClick={()=>this.onRequest(email)}>Check Request</button></center>
  86   </p>
  87   <br>
  88   <br>
  89   </div>
  90   <br>
Ln 1, Col 1  Spaces: 2  UTF-8  CRLF  {} JavaScript  Live Share
main* 0 0 0 Hash1996 956 PM 10/13/2021
```

FIGURE 99 UPDATE DELETE GUIDE

2.4. Testing

Testing Function: Add Destination

Test Case Designed By: IT19192024

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Destination manager should be logged into the system.

Test Steps:

1. Fill destination details.
2. Click create destination button.
3. Pop up Successful alert.

TABLE 1 ADD DESTINATION TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	<ul style="list-style-type: none">• Title• Description• Description1• Destination URL• Video URL• Image	Add destination details. to system. After that alert display “Successful”	Add destination details. to system. After that alert display “Successful”	Pass	Destination manager logged in to account and view destination management dashboard. Destination manager Fill the form and click create destination button. After that successful added to the system.

Testing Function: Delete Destination

Test Case Designed By: IT19192024

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Destination manager should be logged into the system.

Test Steps:

1. Click delete button on table.
2. After that shows delete successfully alert.

TABLE 2 DELETE DESTINATION TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Click the “delete” button in a particular destination.	Show message “successfully deleted destination”	Show message “successfully deleted destination”	Pass	Destination manager delete a particular destination. Comment: Destination has been successfully deleted from the database.

Testing Function: Update Destination

Test Case Designed By: IT19192024

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Destination manager should be logged into the system.

Test Steps:

1. Click edit button on table and automatically fill the form by system.
2. Do necessary changes.
3. Add click the update button.
4. After shows update successfully alert.

TABLE 3 UPDATE DESTINATION TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Details need to be updated(Click out need to be updated)	Redirect to destination list and display newly updated details.	Redirect to destination list and display newly updated details.	Pass	Destination manager logged in to account and view Destination adding dashboard. Destination manager click update button. After that destination manager do necessary changes.

Testing Function:**TABLE 4 SEARCH DESTINATION TEST CASE**

Search Destination

Test Case Designed By: IT19192024**Test Priority (High / Medium / Low):** High**Pre-conditions (if there are any):** Destination manager should be logged into the system.**Test Steps:**

1. View destination list.
2. Search the destination title.
3. Then it shows the relevant destination.

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Anuradhapura	Anuradhapura select button	Anuradhapura select button	Pass	<p>Destination manager can search events from the existing destination list by giving a particular destination title. So that he can view the destination from that destination title.</p> <p>Comment: Sorted data has been displayed.</p>

Testing Function: Add Vehicle

Test Case Designed By: IT20032692

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): User should be logged into the system

Test Steps:

4. Log in as Vehicle Admin
5. Navigate to Vehicle Renting .
6. Fill the create vehicle form with the relevant details.
7. Click Save button.

TABLE 5 ADD VEHICLE TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
01	Name Brand Price per day Year Image1 Image2 Image3 Image4 Image5 Category Seat capacity Contact number description	Add vehicle details to system. After that notification display “Successful”	Added vehicle details to system. System displayed notification display. ”Successful”	Pass	Vehicle Admin logged in to account and view rent vehicle table. Vehicle Admin selects vehicle and click save button . after that Vehicle Admin do necessary changes

Testing Function: update Vehicle

Test Case Designed By: IT20032692

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): User should be logged into the system

Test Steps:

1. Navigate to the vehicle where Existing vehicles list displays.
2. Click on “update” button of a particular event .
3. Edit relevant data in the fields of the Update Event form.
4. Click Update button.

TABLE 6 UPDATE VEHICLE TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
01	Details need to be updated. (Check out need to be updated)	Redirects to vehicle list and display newly update details	Redirects to vehicle list and display newly update details	Pass	Vehicle Admin logged in to account and view rent vehicle table. Vehicle Admin selects vehicle and click save button . after that Vehicle Admin do necessary changes

Testing Function:**TABLE 7 DELETE VEHICLE TEST CASE**

delete Vehicle

Test Case Designed By: IT20032692**Test Priority (High / Medium / Low):** High**Pre-conditions (if there are any):** User should be logged into the system**Test Steps:**

1. Navigate to the vehicle where Existing vehicles list displays.
2. Select the vehicle detail which want to delete
3. Click on the Delete button
4. Click ok button in the Popup confirmation message for the function

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
01	Click the Delete button in a Particular vehicle Detail record	Display a message as "You successfully deleted vehicle!"	Same as expected output	Pass	When Vehicle Admin delete vehicle record from the vehicle table, it will delete on the database and vehicle table.

Testing Function: Add Adventure activity

Test Case Designed By: IT20037192

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Adventure manager must have log into the system

Test Steps:

8. Fill the adventure detail
9. Click submit button
10. Pop up Successful alert

TABLE 8 ADD ADVENTURE ACTIVITY TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Adventure name Image Image Descriptions City Province Activity type	Add Adventure activity details. to system. After that alert display “Successful”	Add Adventure activity details. to system. After that alert display “Successful”	Pass	Adventure manager logged in to account and view Adventure activity adding. Adventure manager Fill the form and click add button . after that successfully added to the system

Testing Function: Update Adventure activity

Test Case Designed By: IT20037192

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Adventure manager must have log into the system

Test Steps:

1. Click edit button on table
2. And automatically fill the form by system
3. Do necessary changes
4. And click the update button
5. After that shows update successfully alert

TABLE 9 UPDATE ADVENTURE ACTIVITY TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Details need to be updated. (Check Out need to be updated)	Redirect to Adventure list and display newly updated details	Redirects to Adventure list and display newly updated details	Pass	Adventure manager logged in to account and view Adventure Adding dashboard. Adventure manager selects and click update button . after that Adventure manager do necessary changes

Testing Function: Delete Adventure activity

Test Case Designed By: IT20037192

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Adventure manager must have log into the system

Test Steps:

1. Click delete button on table
2. After that shows Delete successfully alert

TABLE 10 DELETE ADVENTURE ACTIVITY TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Click the “Delete” button in a Particular Adventure activity	Show Message “You Successfully deleted the Event”	Show Message “You Successfully deleted the Event”	Pass	Adventure activity Managers delete a particular Adventure activity Comment: Adventure Activity has been successfully deleted from the database.

Testing Function:**TABLE 11 SEARCH ADVENTURE ACTIVITY TEST CASE**

Search Adventure activity

Test Case Designed By: IT20037192**Test Priority (High / Medium / Low):** High**Pre-conditions (if there are any): Adventure manager must have log into the system****Test Steps:**

1. View adventure list
2. Search by the Adventure name or city
3. Then it shows the relevant activity

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Hiking	Hiking Piduruthalagala Select button	Hiking Piduruthalagala Select button	Pass	<p>Activity Manager can search events from the existing Adventure list by giving a particular Adventure name. So that he can view the Adventure from that particular Adventure name</p> <p>Comment: Sorted data has been displayed.</p>

Testing Function:

TABLE 12 ADD TOUR GUIDE TEST CASE

Add Tour Guide

Test Case Designed by: IT20113254

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): User should be logged into the HR Manager account and retrieve all Employee details.

Test Steps:

1. Fill guide details.
2. Click create guide button.
3. Pop up Successful alert.

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/ Fail)	Description
03	guideID	Add guide details. to system. After that alert display “Successful”	Add guide details. to system. After that alert display “Successful”	Pass	Guide manager logged in to account and view web site

Testing Function: Add hotel

Test Case Designed by: IT20089436

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): User should be logged into the HR Manager account and retrieve all Employee details.

Test Steps:

1. Fill hotel details.
2. Click create hotel button.
3. Pop up Successful alert.

TABLE 13 ADD HOTEL TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	hotellID	Add hotel details. to system. After that alert display “Successful”	Add hotel details. to system. After that alert display “Successful”	Pass	Hotel manager logged in to account and add a hotel.

Testing Function: Delete guide

Test Case Designed by: IT20032692

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): User should be logged into the HR Manager account and retrieve all Employee details.

Test Steps:

1. Click delete button on table.
2. After that shows delete successfully alert.

TABLE 14 DELETE GUIDE TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	GuideID	Show message “successfully deleted destination”	Show message “successfully deleted destination”	Pass	Guide manager delete a particular guide.

Testing Function: Delete hotel

Test Case Designed by: IT19192024

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): User should be logged into the HR Manager account and retrieve all Employee details.

Test Steps:

1. Click delete button on table.
2. After that shows delete successfully alert.

TABLE 15 DELETE HOTEL TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	HotelID	Show message “successfully deleted destination”	Show message “successfully deleted destination”	Pass	Hotel manager delete a particular Hotel.

Testing Function: Update guide

Test Case Designed by: IT20032692

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): User should be logged into the HR Manager account and retrieve all Employee details.

Test Steps:

1. Click edit button on table and automatically fill the from by system.
2. Do necessary changes.
3. Add click the update button.

TABLE 16 UPDATE GUIDE TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Details need to be updated(Click out need to be updated)	Redirect to Guide list and display newly updated details.	Redirect to Guide list and display newly updated details.	Pass	Guide manager logged in to account and view Guide dashboard.

Testing Function: Update hotel

Test Case Designed by: IT19192024

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): User should be logged into the HR Manager account and retrieve all Employee details.

Test Steps:

1. Click edit button on table and automatically fill the form by system.
2. Do necessary changes.
3. Add click the update button.

TABLE 17 UPDATE HOTEL TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Details need to be updated(Click out need to be updated)	Redirect to Hotel list and display newly updated details.	Redirect to Hotel list and display newly updated details.	pass	Hotel manager logged in to account and view hotel adding dashboard.

Testing Function: Add Advertisement

Test Case Designed By: IT20084318

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Advertiser must have log into the system

Test Steps:

1. Fill the advertisement detail
2. Click submit button
3. Pop up Successful alert

TABLE 18 ADD ADVERTISEMENT TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Advertisement Type Advertisement Category Advertisement Information Add Advertisement	Add Advertisement details. to system. After that alert display “Successful”	Add Advertisement details. to system. After that alert display “Successful”	Pass	Advertiser logged in to account and add Advertisement to system and add additional information.

Testing Function: Update Advertisement
Test Case Designed By: IT20084318

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Advertiser must have log into the system

Test Steps:

1. Click edit button on table
2. And automatically fill the form by system
3. Do necessary changes
4. And click the update button
5. After that shows update successfully alert

TABLE 19 UPDATE ADVERTISEMENT TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/ Fail)	Description
03	Details need to be updated. (Check Out need to be updated)	Redirect to Advertisement list and display newly updated details	Redirects to Advertisement list and display newly updated details	Pass	Advertiser logged in to account and view Advertisement Adding dashboard. Advertiser selects and click update button . after that Advertiser do necessary changes

Testing Function

TABLE 20 : DELETE ADVERTISEMENT TEST CASE

: Delete Advertisement

Test Case Designed By: IT20084318

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Advertiser must have log into the system

Test Steps:

1. Click delete button on table
2. After that shows Delete successfully alert

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/ Fail)	Description
03	Click the “Delete” button in a Particular Advertisement	Show Message “You Successfully deleted the Event”	Show Message “You Successfully deleted the Event”	Pass	Advertiser delete a Advertisement Comment: Advertisement has been successfully deleted from the database.

Testing Function: Add Card details

Test Case Designed By: IT20049140

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Payment manager must have log into the system

Test Steps:

11. Fill the card details
12. Click checkout button
13. Pop up Successful added alert

TABLE 21 ADD CARD DETAILS TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Name on card Bank Name Card number Cvv EX.date	Add card details. to system. After that alert display “Successful added”	Add Card details. to system. After that alert display “Successful added”	Pass	Payment manager logged in to account and view Payment adding. payment manager Fill the form and click add button . after that successfully added to the system

Testing Function: Update Card details

Test Case Designed By: IT20049140

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Payment manager must have log into the system

Test Steps:

1. Click edit button on table
2. And automatically fill the form by system
3. Do necessary changes
4. And click the update button
5. After that shows update successfully alert

TABLE 22 : UPDATE CARD DETAILS TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/ Fail)	Description
03	Details need to be updated. (Check Out need to be updated)	Redirect to card detail list and display newly updated details	Redirects to Card activity list and display newly updated details	Pass	payment manager logged in to account and view Payment Adding dashboard. Payment manager selects and click update button . after that Payment manager do necessary changes

Testing Function: Delete card details

Test Case Designed By: IT20049140

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Adventure manager must have log into the system

Test Steps:

1. Click delete button on table
2. After that shows Delete successfully alert

TABLE 23 DELETE CARD DETAILS TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	Click the “Delete” button in a Particular Card detail	Show Message “You Successfully deleted the card detail”	Show Message “You Successfully deleted the card detail”	Pass	Payment Managers delete a particular card detail Comment: Payment Activity has been successfully deleted from the database.

Testing Function: Search card details

Test Case Designed By: IT20049140

Test Priority (High / Medium / Low): High

Pre-conditions (if there are any): Adventure manager must have log into the system

Test Steps:

1. View card list
2. Search by the Card name or bank name
3. Then it shows the relevant card detail

TABLE 24 SEARCH CARD DETAILS TEST CASE

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
03	NDB 12345 6789 13574 9999	NDB 12345 6789 13574 9999 K.G.S De Silva 05/21	NDB 12345 6789 13574 9999 K.G.S De Silva 05/21	Pass	Payment Manager can search card details from the existing card list by giving a particular Bank name. So that he can view the card from that particular card name Comment: Sorted data has been displayed.

TABLE 25 MAKE AN APPOINTMENT TEST CASE

Test Case ID: Customer_08	Test Designed By: K.D.M.Imantha
Test Title: Testing make an appointment before purchasing the treatment	Test Designed Date: 2021.10.08
Test priority: High	Test Executed By: K.D.M.Imantha
Module Name: Make an appointment	Test Executed Date: 2021.10.09
Description: Enter required details. Full Name, Age, Contact Number, Gender, Description, Date	
Precondition: User should be Login to the system.	
Dependencies:	
Test steps: <ul style="list-style-type: none">• Login to the system by entering correct login credentials• Visit the “Ayurvedic Treatments Store” page• Click on “Select” button on a selected treatment• Click on “Appointment” button• Fill all the fields in the form with correct details.• Click on the “Submit” button	

Table Ayurvedic Treatment Management Function 1

Test ID	Test Inputs	Expected outputs	Actual outputs	Result	Comment
Customer_08	Full Name – Amal Nayana Perera Age - 45 Contact Number - 0768851234 Gender - Male Description – To get body treatment Date – 10/13/2021	Display all the entered data in the order table as a new record	Display all the entered data in the order table as a new record	pass	Output is coming as expected
Customer_08	Full Name – Shehani Nayanathara Perera Age - 32 Contact Number - 0723451234 Gender - Description - To get body treatment Date – 11/03/2021	Pop up Message – “This is a required field”	Pop up Message – “This is a required field”	pass	Output is coming as expected

Table Ayurvedic Treatment Management 1.2

TABLE 26 TESTING ADMIN SEARCH REQUEST

Test Case ID: Admin_08	Test Designed By: K. D. M. Imantha
Test Title: Testing admin search request record	Test Designed Date: 2021.10.08
Test priority: High	Test Executed By: K.D.M.Imantha
Module Name: Search requests	Test Executed Date: 2021.10.09
Description: Enter ‘Treatment Name’ to get the details of the ‘Ayurvedic Treatment’	
Precondition: User should be Login as admin	
Dependencies:	
Test steps: <ul style="list-style-type: none">• Login to the system by entering correct login credentials• Navigate to the “Treatments” page• Enter ‘Treatment Name’ on the search bar• Display request records in the treatments table which is similar to the entered keyword	

Table Ayurvedic Treatment Management Function 2

Test ID	Test Inputs	Expected outputs	Actual outputs	Result	Comment
Admin_08	Hydra Facial	Display all the request records where name is equal to Hydra Facial in the ‘Treatments’ table.	Display all the request records where name is equal to Hydra Facial in the ‘Treatments’ table.	pass	Output is coming as expected
Admin_08	ENVY Facial	No search results	No search results	pass	Output is coming as expected

Table Ayurvedic Treatment Management Function 2.2

3. Conclusion

3.1 Objectives

The main objective of this proposed project is to design and implement an automated online system and web-based application for Tourism sector. This full system will be designed for Tourists to manage their tours and service providers to publish their services. Our web-based system named as OPEN WORLD It has Hotel management, Guide management, Vehicle management, Places to visit, advertisements, Adventure management, Ayurveda treatment management and payment management . It is a huge task to manage and keep a track of large amount of sensitive data and generate valuable reports to the tourists and service providers. To avoid that and make the process more efficient, productive, and convenient for both parties, it is decided to design and implement this Tourist Management system.

3.2 Goals

- Provide a Web based system enabling automated data entry methods, data update methods, data retrieve methods and data delete methods.
- Provide fast and easier ways to automatically keep all the required records by using centralized database instead of manually storing files.
- Avoid data redundancy, data inconsistency by properly storing.
- Create using graphical, friendly interfaces, images, and videos to make the customer comfortable and do their wants with just few clicks.
- To provide better web sites to the tourists and service providers.

3.3 Benefits of the system

- Reduce operating cost
- Better data management
- Minimize data redundancy and processing errors
- Reduce data entry
- Store data in a secure database.

4. References

- Stack Overflow – <https://stackoverflow.com>
- YouTube - <https://www.youtube.com>
- Tutorials Point - <https://www.tutorialspoint.com>
- React - <https://reactjs.org/>
- Udemy - <https://www.udemy.com/>